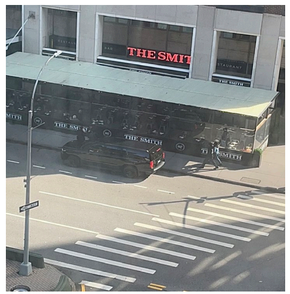
USF SACD

PORTFOLIO

CORE I-III 2022-2023

JINGYING ZHENG JENNIFER



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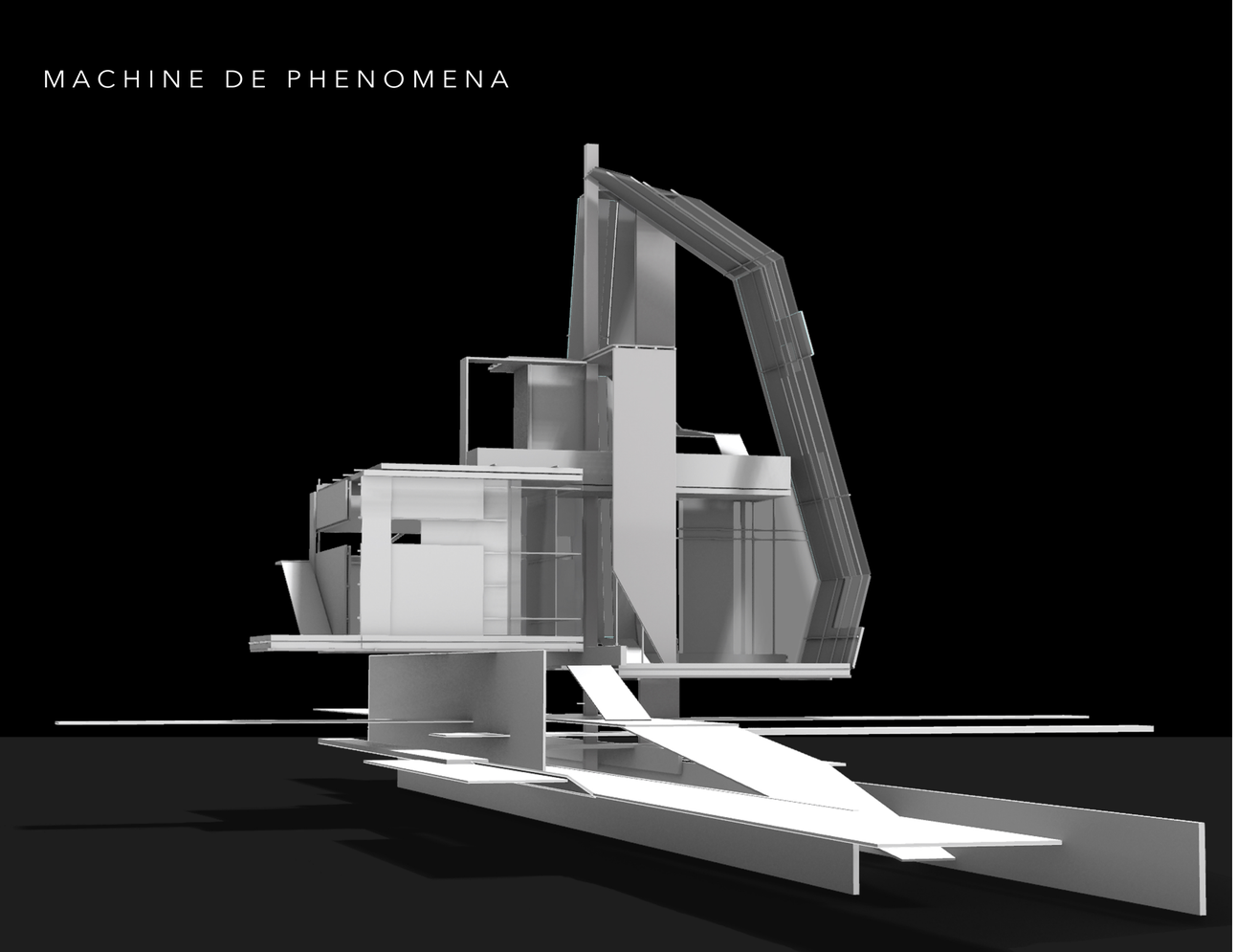
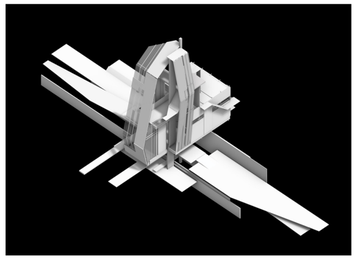
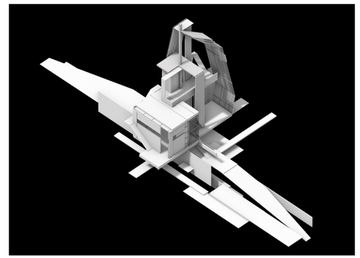
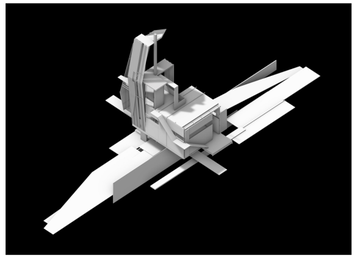
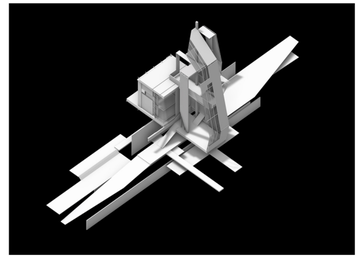
MACHINE DE PHENOMENA





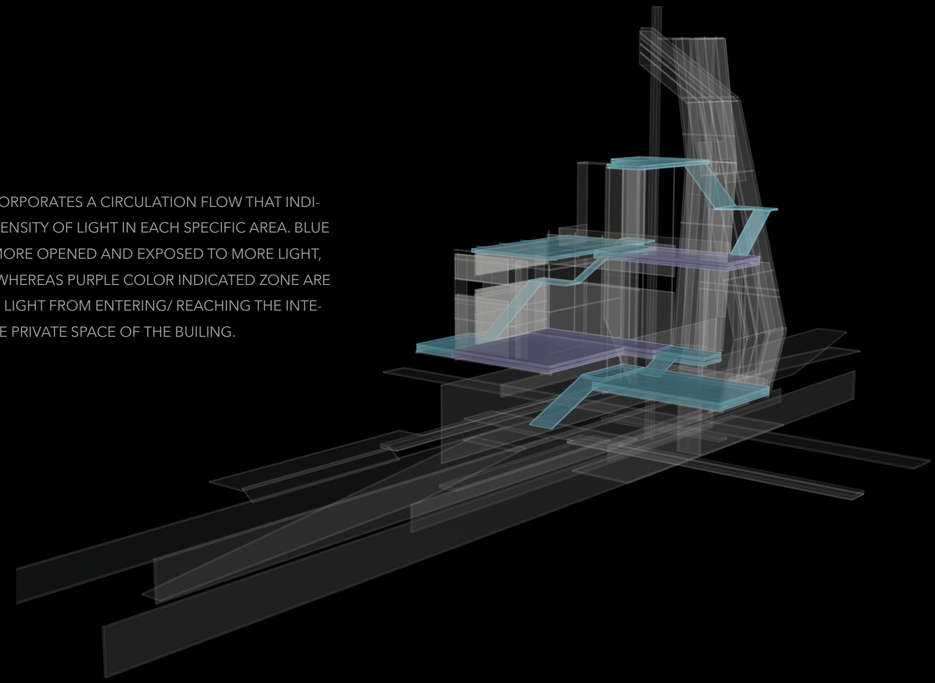




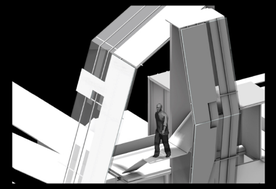


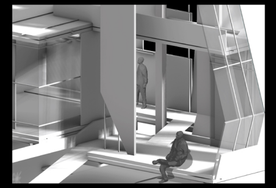
PATH OF THE LIGHT - INSPIRED STRUCTURE SEAMLESSLY INTEGRATES WITH ITS SURROUNDING THROUGH STRATEGIC PLACEMENT OF OPENINGS AND CIRCULATION, AIMING TO CAPTURE THE EPHEMERAL CHANGE OF NATURAL LIGHT THROUGHOUT THE DAY. THE CHANGING ANGLES OF SUNLIGHT IS THE MAIN ELEMENT THAT HELPS CREATE DYNAMIC INTERIOR SPACES, CASTING INTRICATE SHADOWS THAT SPLIT AND DIVIDE A ROOM OR HALLWAY INTO SPACES OF DIFFERENT SCALE AND FUNCTION, BLURRING THE BOUNDARY BETWEEN INDOORS AND OUTDOORS

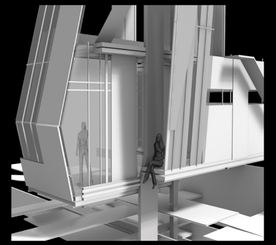
THE BUILDING STUDIES AND INCORPORATES A CIRCULATION FLOW THAT INDICATES DIFFERENT LEVEL AND INTENSITY OF LIGHT IN EACH SPECIFIC AREA. BLUE COLOR INDICATED ZONES ARE MORE OPENED AND EXPOSED TO MORE LIGHT, THEREFORE ARE PUBLIC SPACE. WHEREAS PURPLE COLOR INDICATED ZONE ARE MORE SHADED AND ALLOW LESS LIGHT FROM ENTERING/ REACHING THE INTERIOR SPACE, AND HENCE, ARE THE PRIVATE SPACE OF THE BUILING.

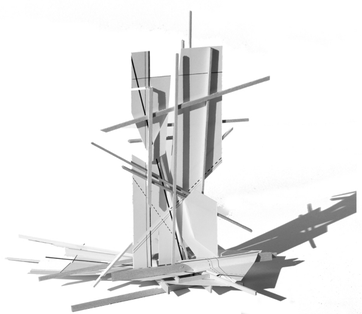


SECTIONS AND PERSPECTIVES









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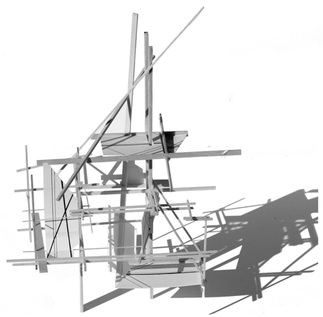

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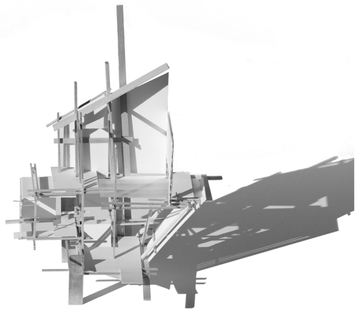

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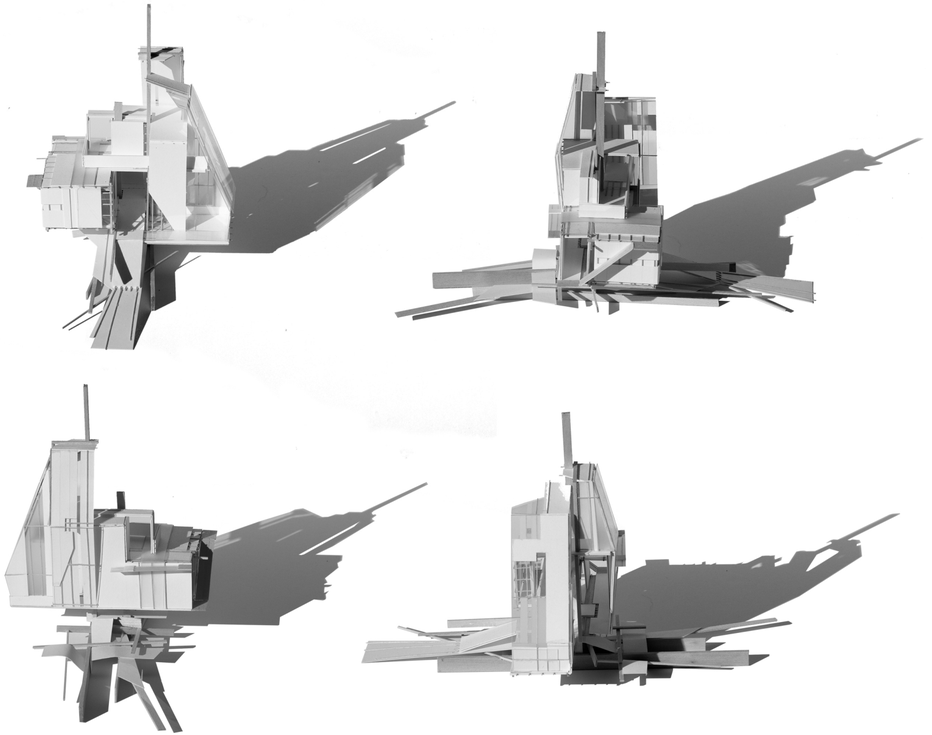


THE CITY - A JOURNEY IN DREAM

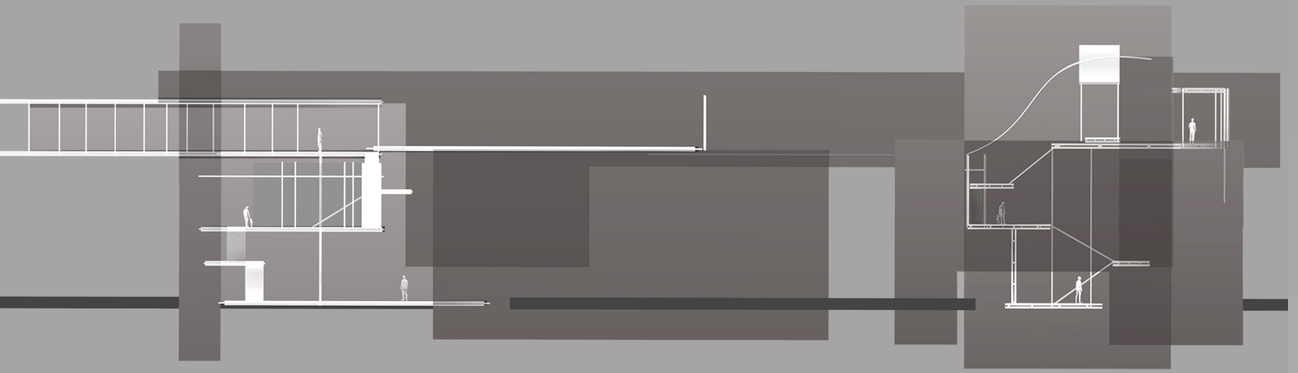
WHAT IS ABOVE YOUR BLANKET AND UNDER YOUR BED ?

WHAT ? WHERE ? WHY ?

WHEN WE FALL ASLEEP WHERE DO WE GO ?

WHY DO WE QUESTION ?

WHAT CAN YOU SEE ON THE SURFACE AND UNDER THE TRUTH ?

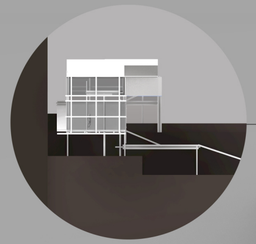


WHY DO WE QUESTION ?

WHAT CAN YOU SEE ON THE SURFACE AND UNDER THE TRUTH ?

WHAT IS THE DIFFERENCE OF THOSE LIVING ABOVE AND UNDER GROUND ?

WHAT WILL BE LEFT WHEN WE'RE GONE ?

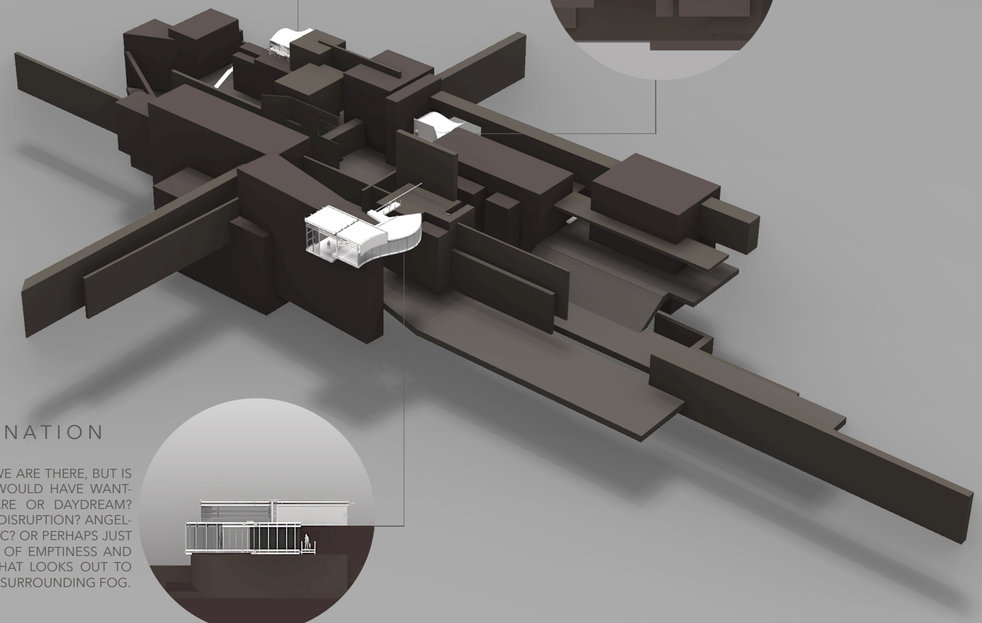


ISOLATION

WE CLOSE OUR EYES, ENTERING ANOTHER WORLD--YET, WHICH WORLD IS IT? WE ISOLATE OURSELVES FROM REALITY, STEPPING INTO ETERNITY, INTO THE REALM OF THE UNFOUND AND UNKNOWN, EMBARKING ON THE BEGINNING OF OUR JOURNEY.

TRANSITION

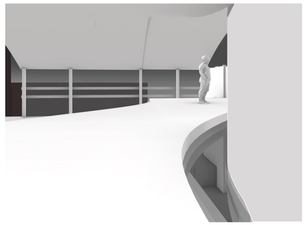
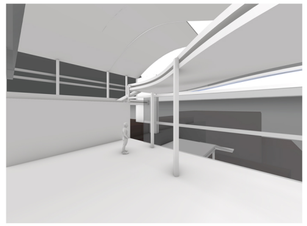
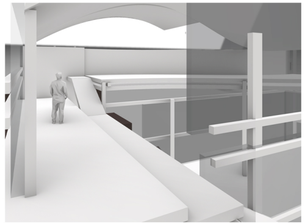
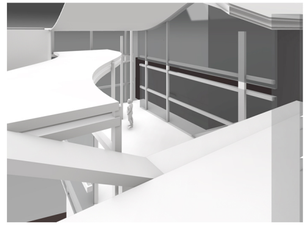
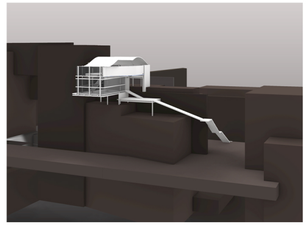
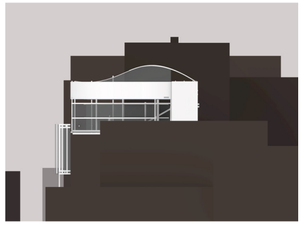
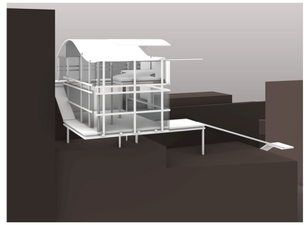
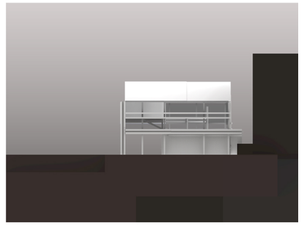
BUT WHAT CONSTITUTES THE MEDIUM THROUGH WHICH WE JOURNEY? WHAT PROPELS US INTO THAT REALM? HOW DISTANT IS IT, AND WHAT IS THE DURATION OF THE VOYAGE? THE EXPEDITION MAY UNFOLD WITH EITHER SEAMLESS PRECISION OR ENCOUNTER UNFORESEEN TUMULTUOUS TWISTS.
GO DEEP, GO EXPLORE, GO MISSING.



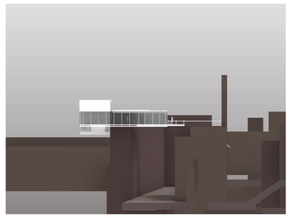
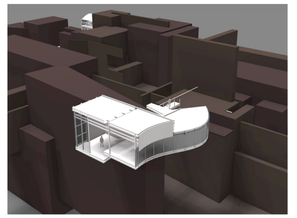
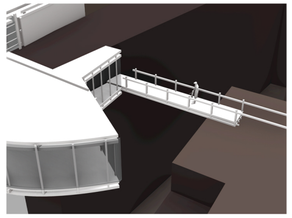
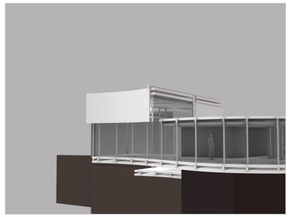
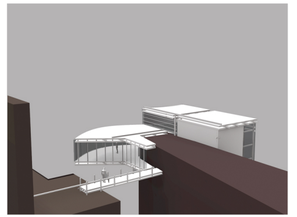
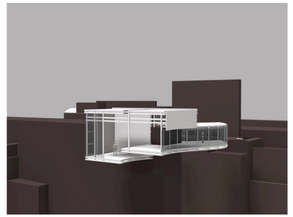
DESTINATION

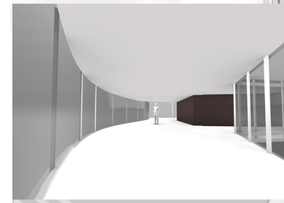
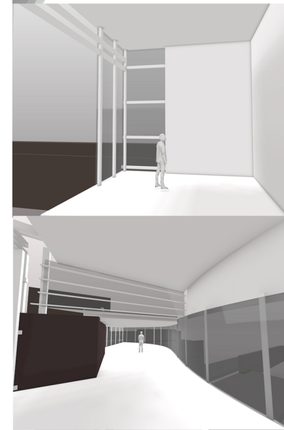
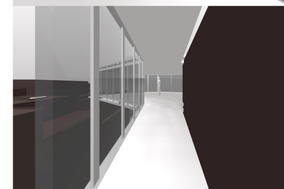
WE MADE IT, WE ARE THERE, BUT IS IT WHAT WE WOULD HAVE WANTED? NIGHTMARE OR DAYDREAM? SERENITY OR DISRUPTION? ANGELIC OR DEMONIC? OR PERHAPS JUST A ROOM FULL OF EMPTINESS AND LONELINESS THAT LOOKS OUT TO NOTHING BUT SURROUNDING FOG.

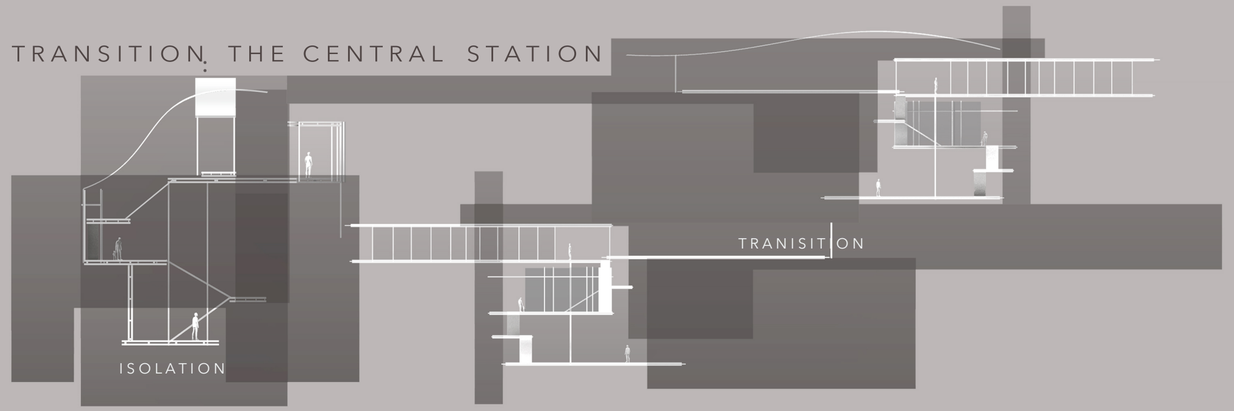
ISOLATION: WHERE THE DREAM BEGINS

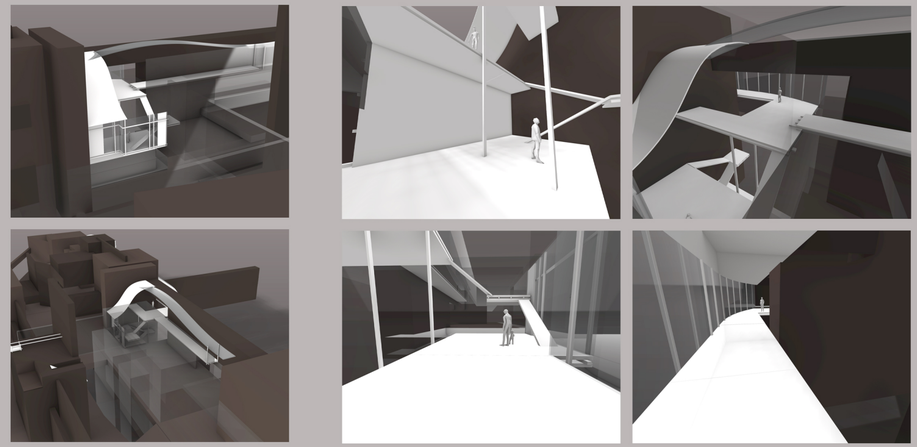









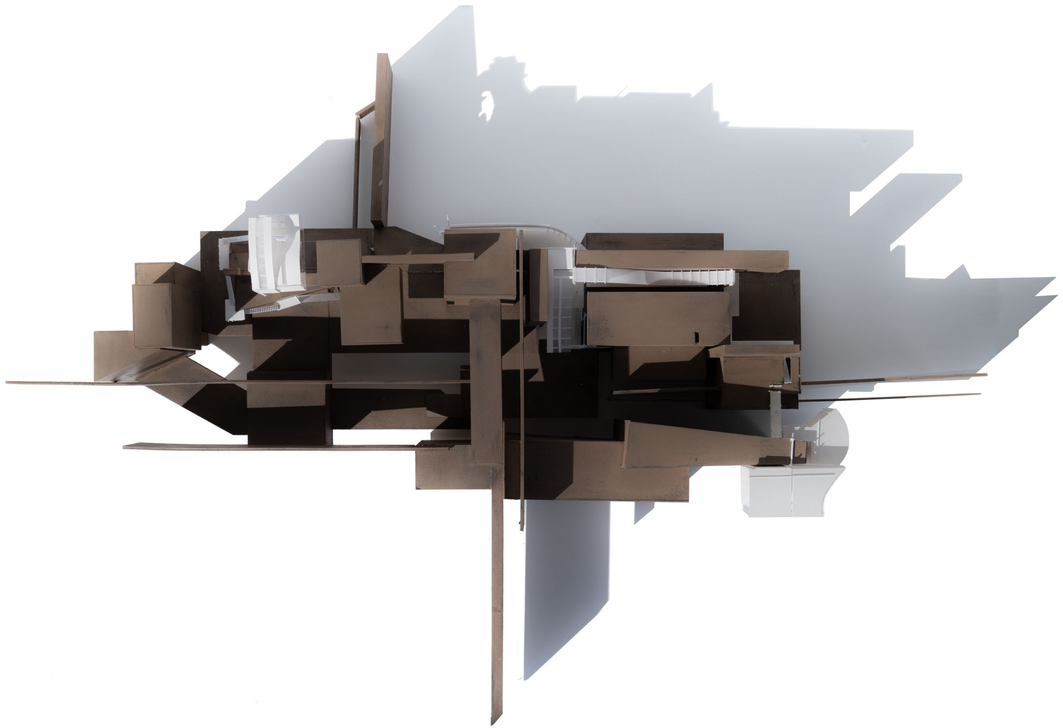
DESTINATION: WHERE THE DREAM ENDS

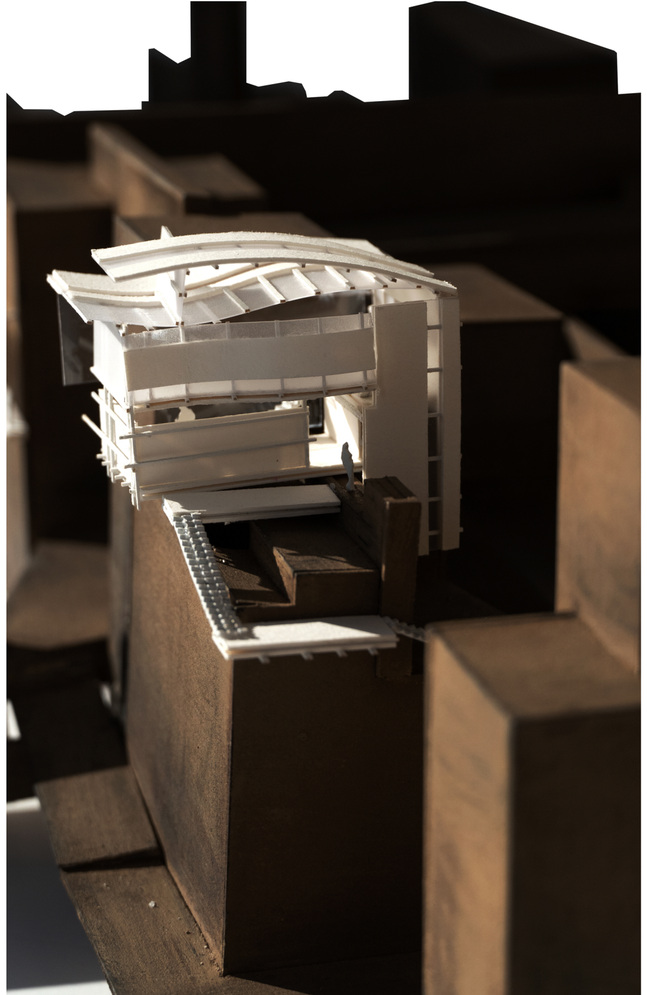







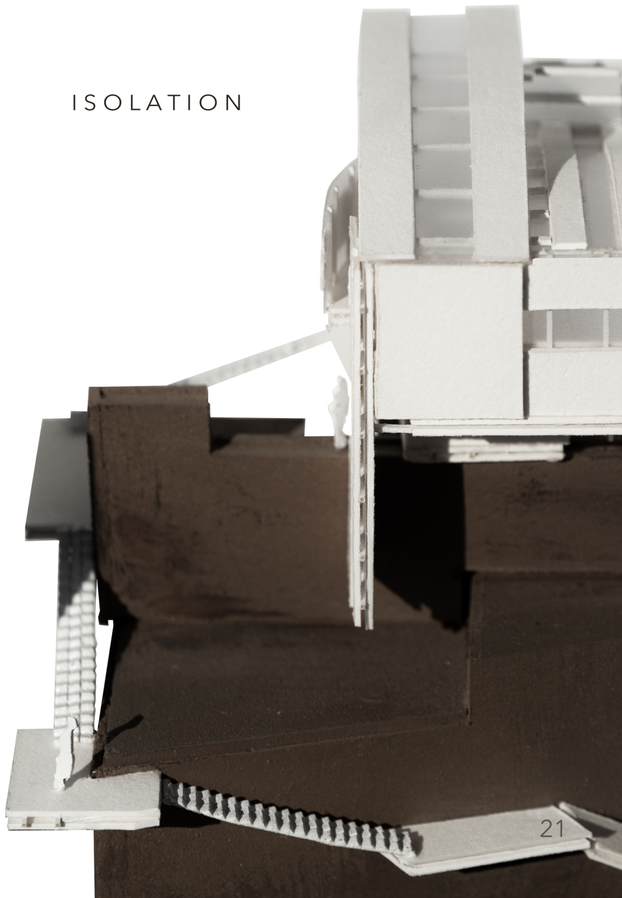




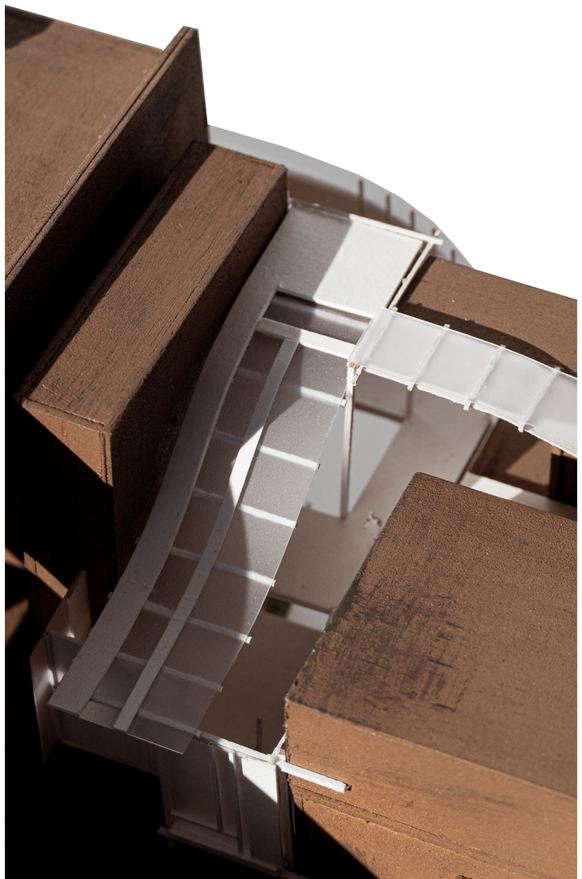

TRANSITION. THE CENTRAL STATION
TRANISITION
ISOLATION









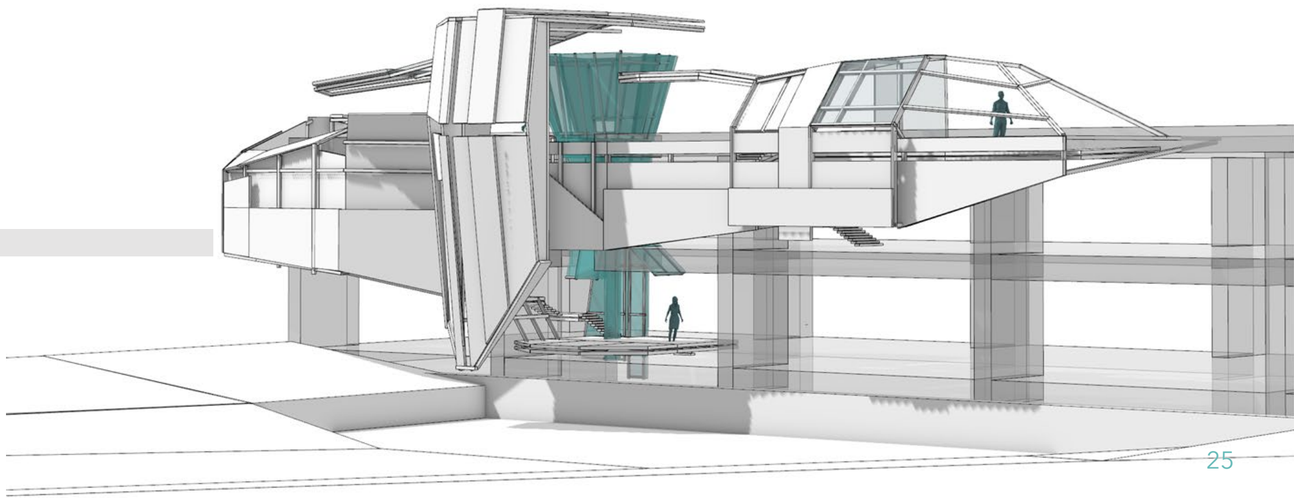


TRANSITION

DESTINATION

THE GARAGE

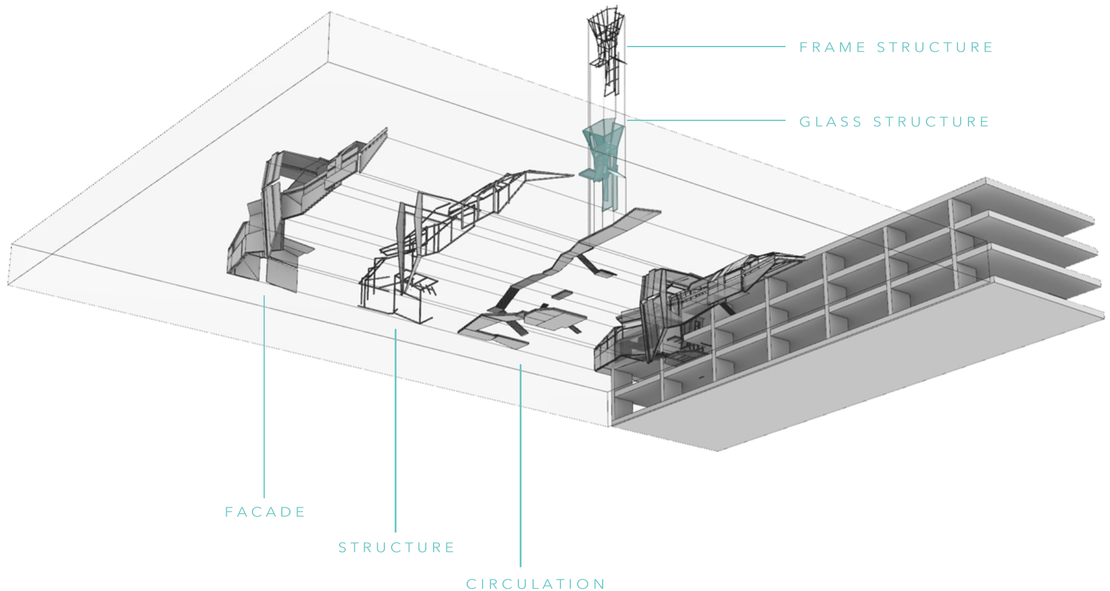
CORE II - PROFESSOR LEVENT KARA



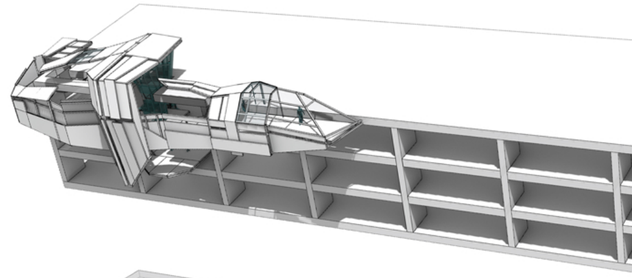
PHYSICAL MODEL

THE GARAGE PROJECT EXPLORES THE INTEGRATION OF ARCHITECTURAL ELEMENTS, MERGING A MUSEUM WITH A PARKING FACILITY GARAGE. THE PRIMARY OBJECTIVE OF THIS PROJECT IS TO UNLOCK POSSIBILITIES AND ENHANCE OPPORTUNITIES FOR THE PARKING STRUCTURE TO OPTIMIZE ITS FUNCTIONALITY WHILE SEAMLESSLY BLENDING WITH THE AUDIO MUSEUM. A KEY FEATURE OF THIS ARCHITECTURAL ENDEAVOR IS THE CENTRAL STRUCTURE, CHARACTERIZED BY GLASS AND FRAMING. THIS DESIGN NOT ONLY AMPLIFIES SOUND FROM BOTH ENDS BUT ALSO FACILITATES THE TRANSMISSION OF SOUND AND LIGHT ACROSS VARIOUS FLOORS. SIMULTANEOUSLY, IT PROVIDES VISITORS WITH THE UNIQUE EXPERIENCE OF BEING IMMERSED WITHIN THE EXPANSIVE VOLUME.

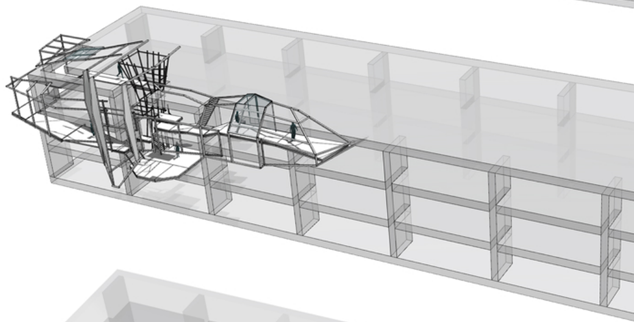
GLASS ATRIUM PENETRATING VERTICALLY ACROSS THE BUILDING AS AN SOUND AMPLIER FOR ART PERFORMANCE THAT TAKES PLACE AT THE BOTTOM FLOOR, VISITORS ARE ABLE TO EXPERIENCE IT FROM PLATFORMS LOCATED AT MULTIPLE LEVELS.



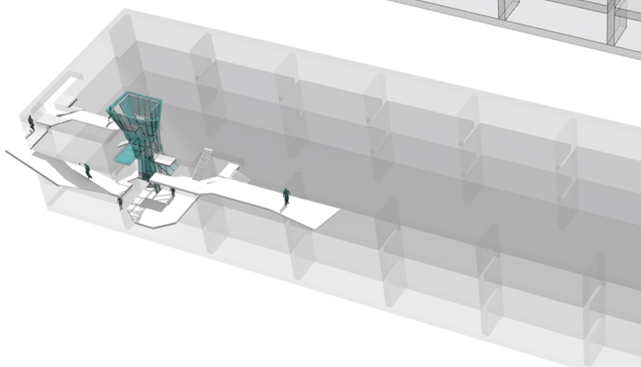
FACADE SYSTEM

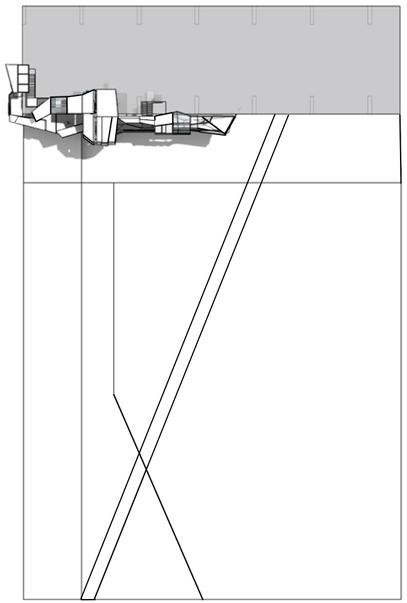


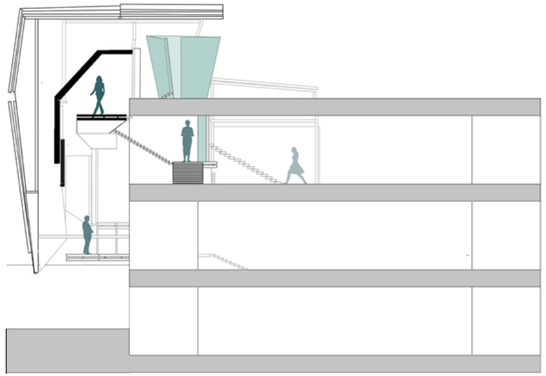
FRAME STRUCTURE SYSTEM

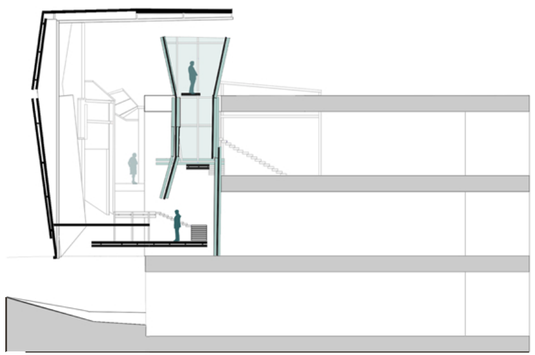


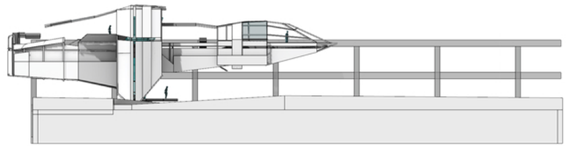
CIRCULATION SYSTEM

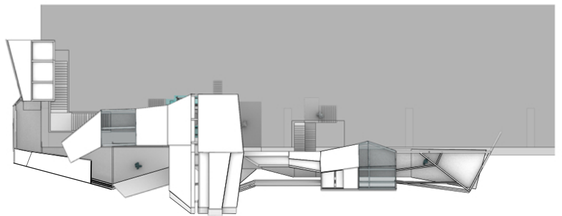


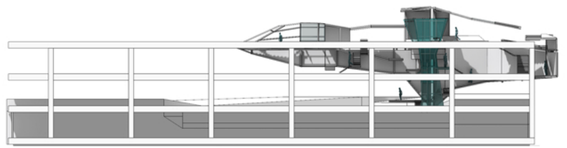


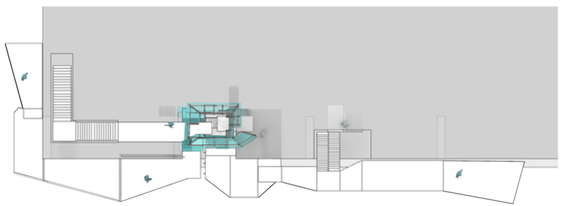


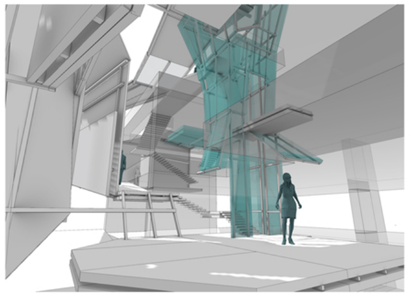


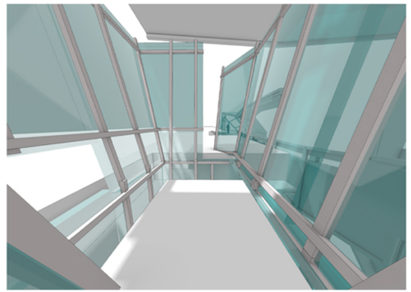


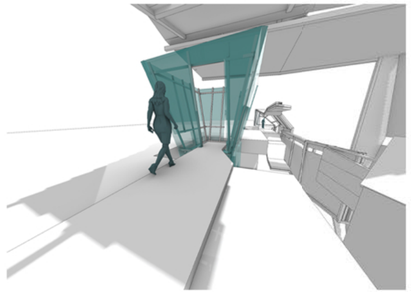


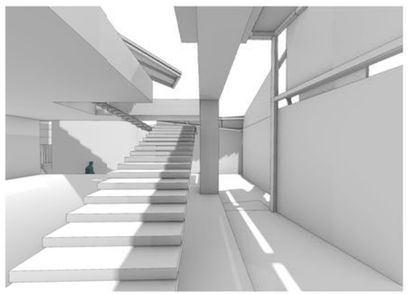


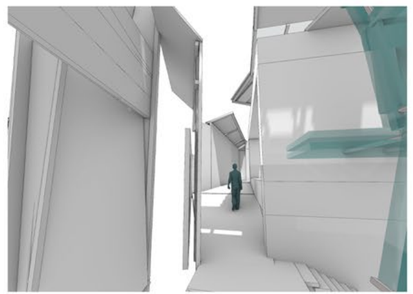


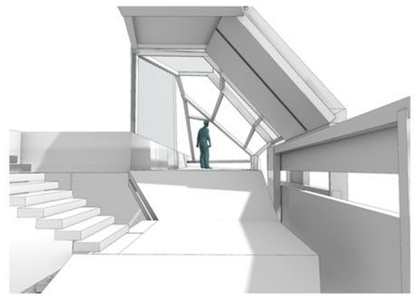






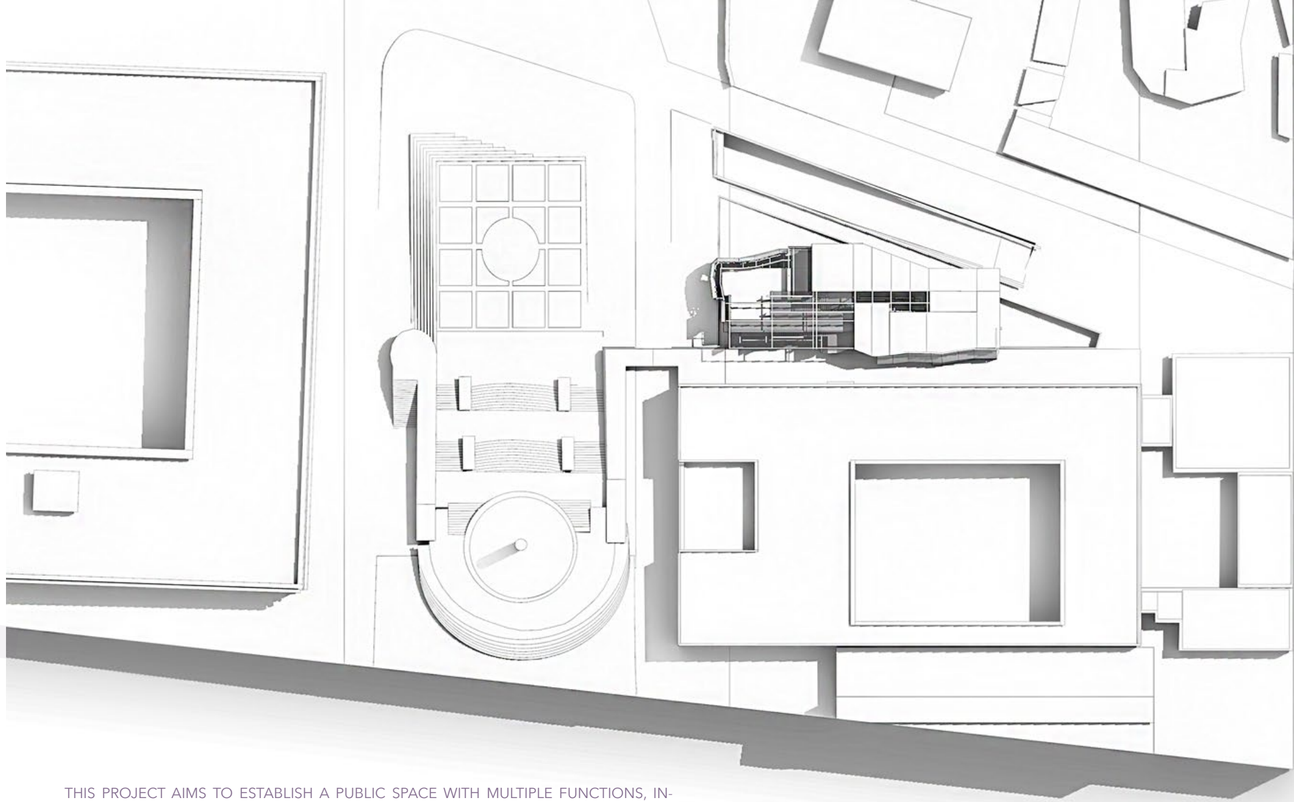




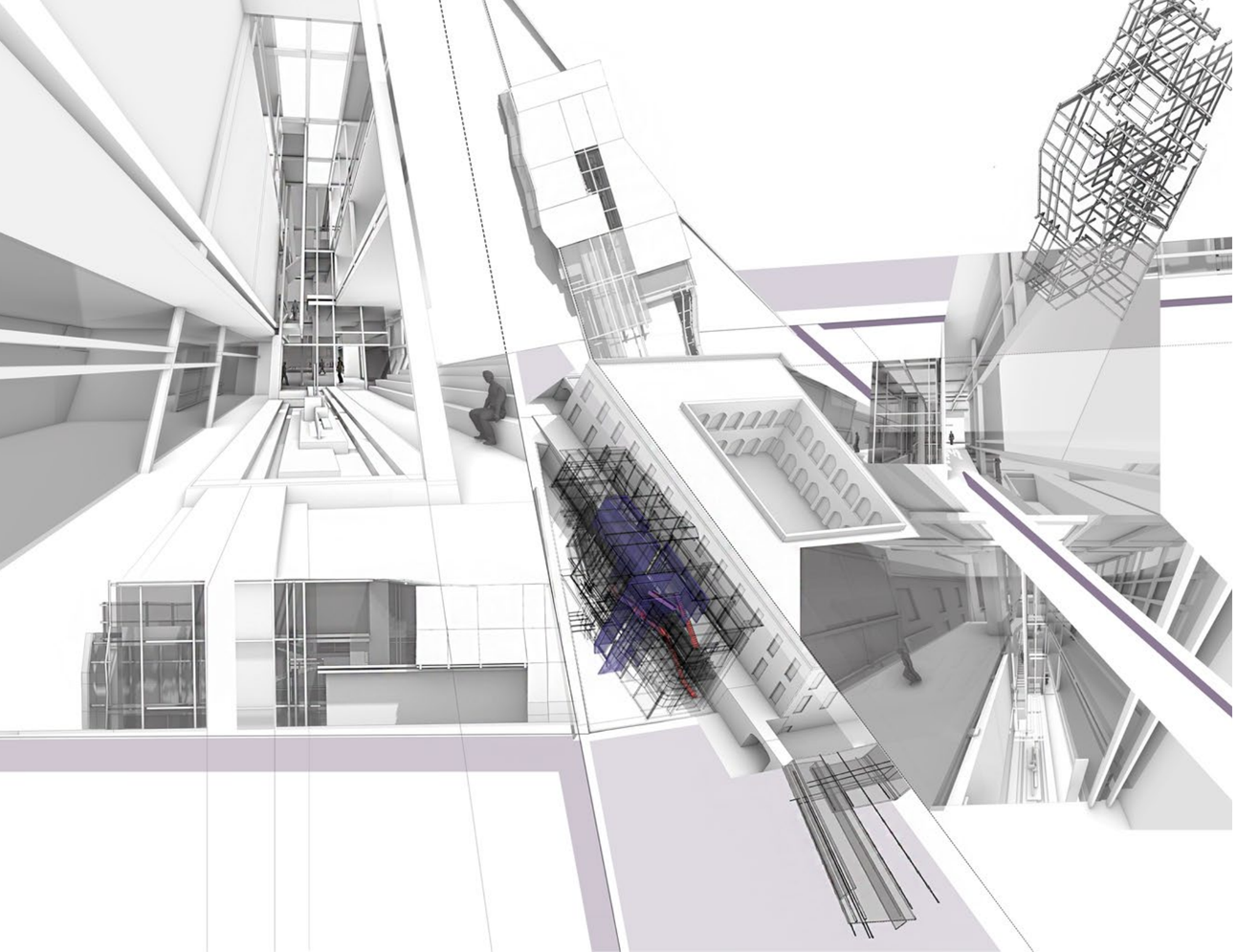


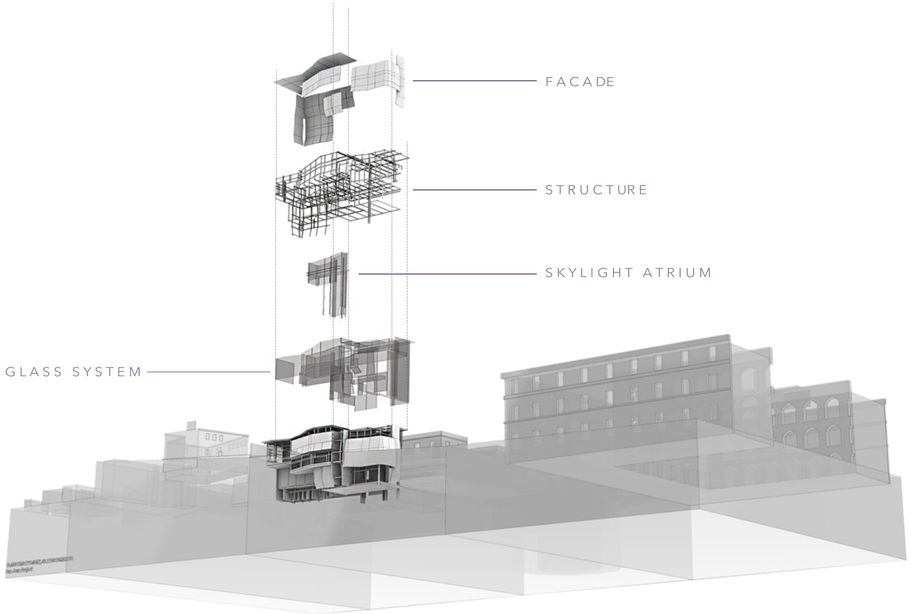
SAN JUAN INTERVENTION

CORE II - PROFESSOR LEVENT KARA

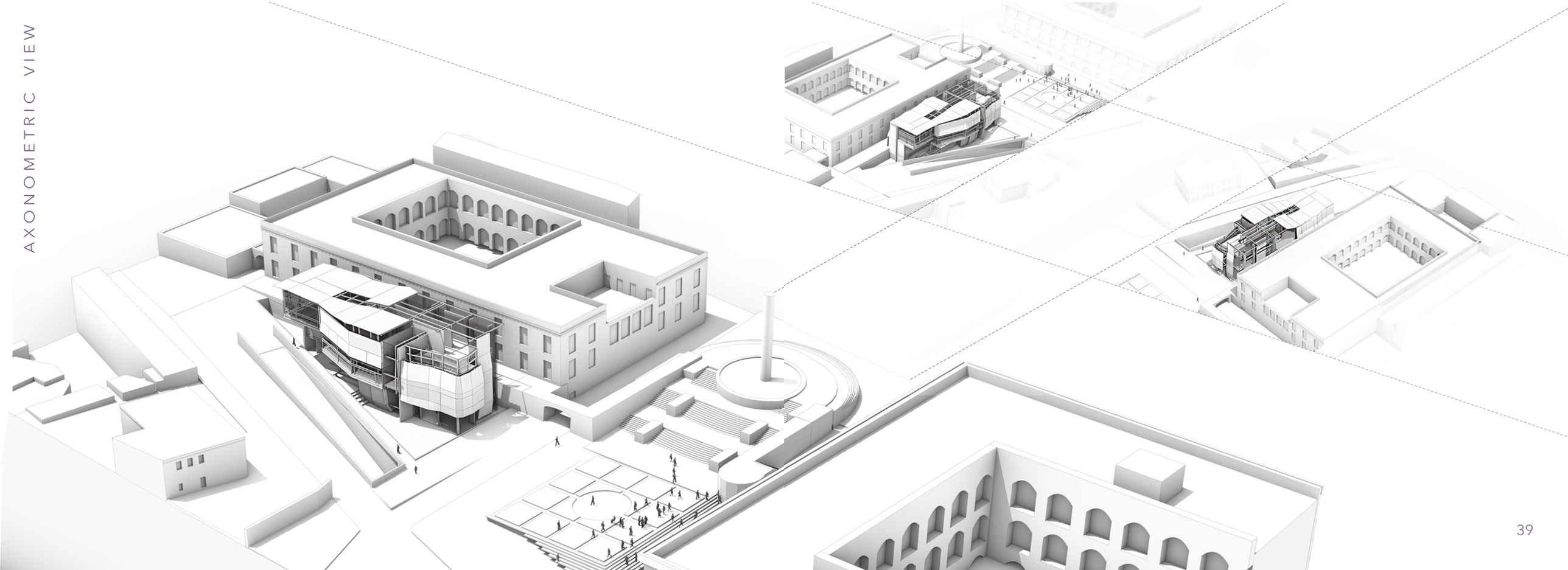


THIS PROJECT AIMS TO ESTABLISH A PUBLIC SPACE WITH MULTIPLE FUNCTIONS, INCLUDING A GALLERY, TOURIST REST AREA, ACTIVITIES ROOM, AND CAFÉ. THE HIGHLIGHT OF THIS ENDEAVOR LIES IN THE INCORPORATION OF THE POPULAR COMMERCIAL CONCEPT OF A CAT CAFE. IN THIS UNIQUE APPROACH, THE CAT CAFE SERVES A CHARITABLE PURPOSE, ACTING AS A SHELTER FOR THE NUMEROUS STRAY CATS IN SAN JUAN. BEYOND OFFERING A SPACE FOR ANIMAL LOVERS TO ENJOY COFFEE WHILE INTERACTING WITH CATS, THE CAFE DIRECTS ALL ITS PROFITS TOWARD RESCUING AND GATHERING STRAY CATS. THIS NOT ONLY FACILITATES CONVENIENT ADOPTIONS BUT ALSO PERSUASIVELY CONTRIBUTES TO THE WELFARE OF THESE ANIMALS

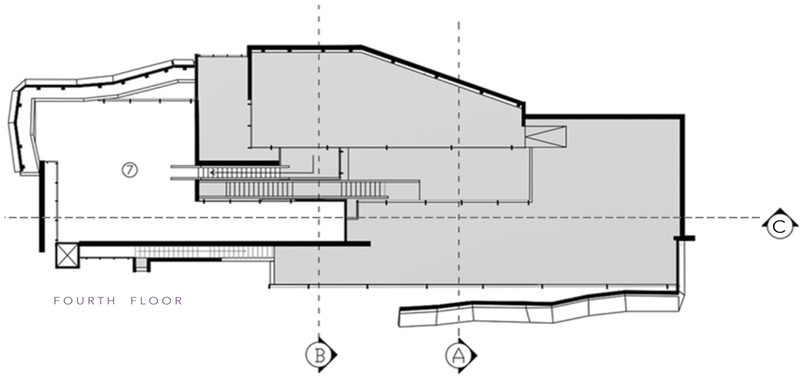



FACADE
STRUCTURE
SKYLIGHT ATRIUM
GLASS SYSTEM

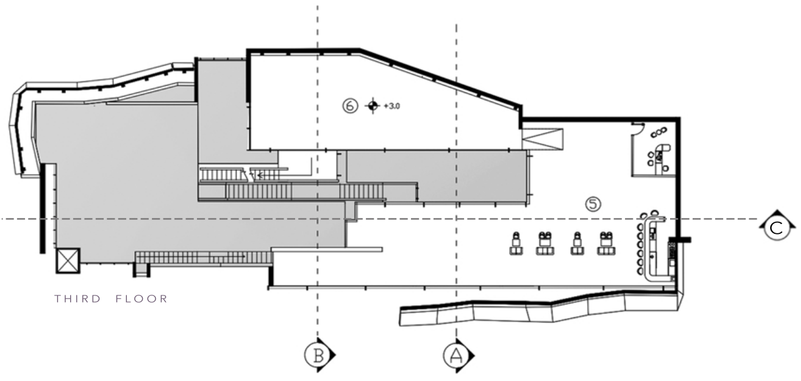
AXONOMETRIC VIEW



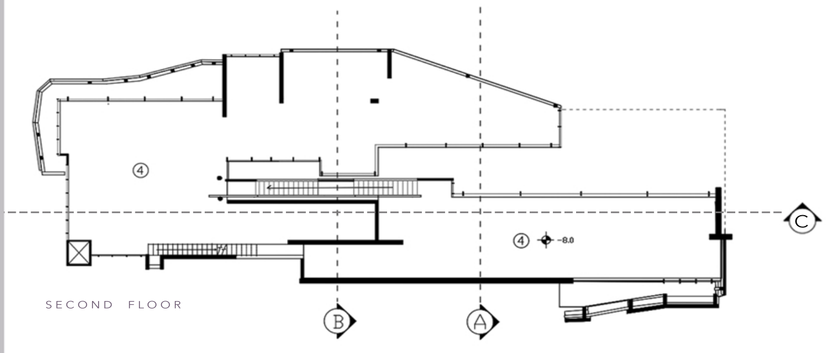
FLOOR PLANS



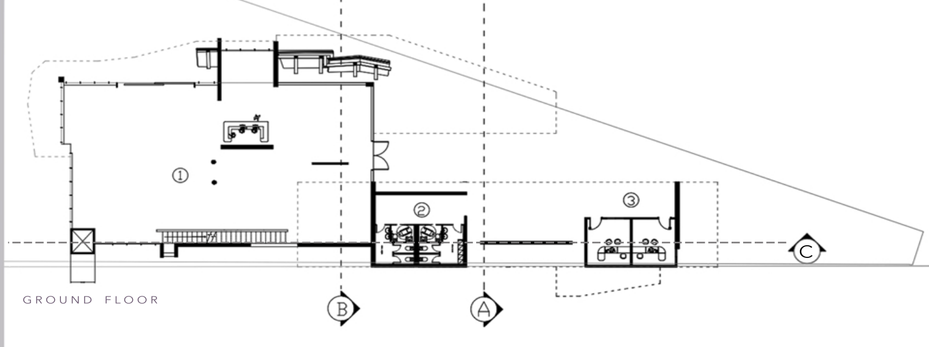
FOURTH FLOOR



THIRD FLOOR

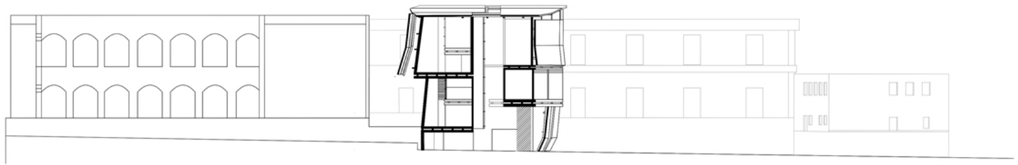


SECOND FLOOR



GROUND FLOOR

1 RECEPTION
2 RESTROOM
3 OFFICE
4 GALLERY
5 CAT CAFE
6 CAFE
7 ROOFTOP GARDEN



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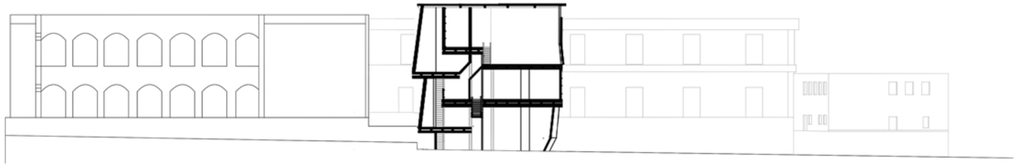

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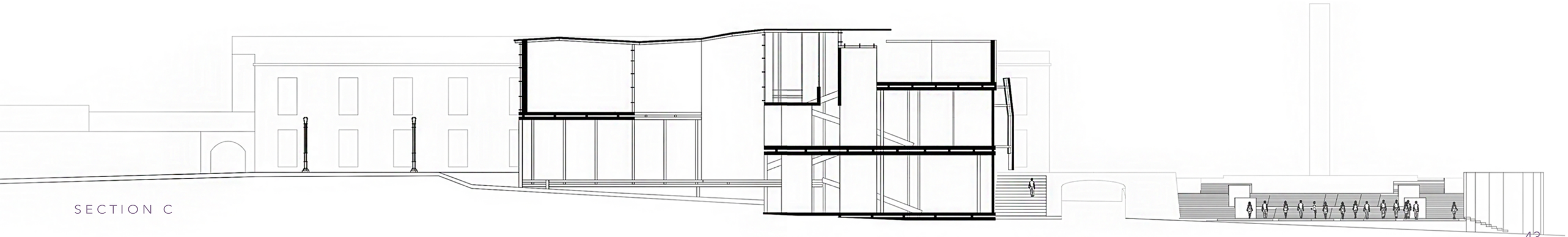
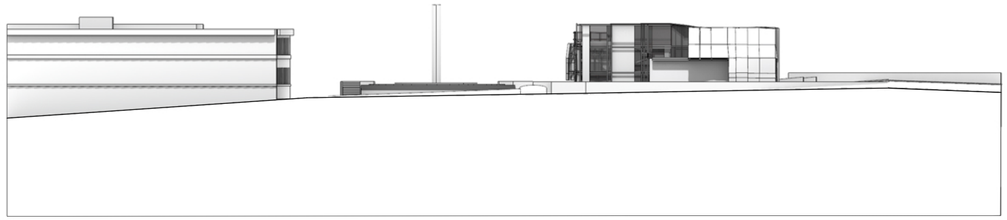
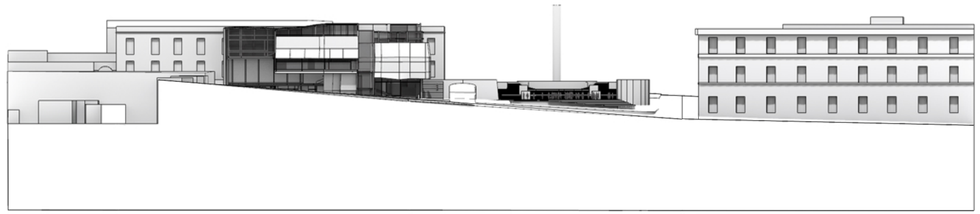


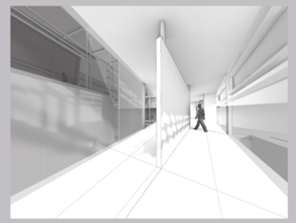
SECTION C

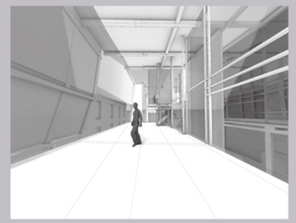
ELEVATIONS

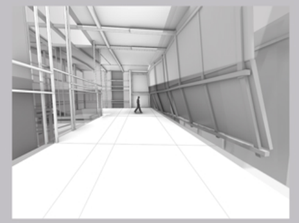


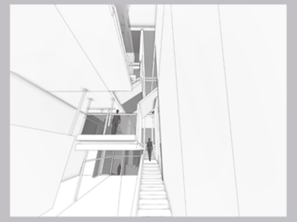


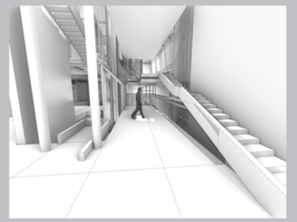
INTERIOR PERSPECTIVES

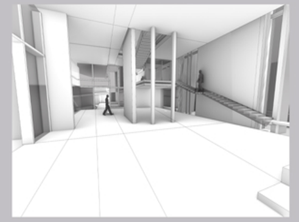


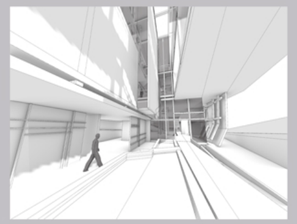


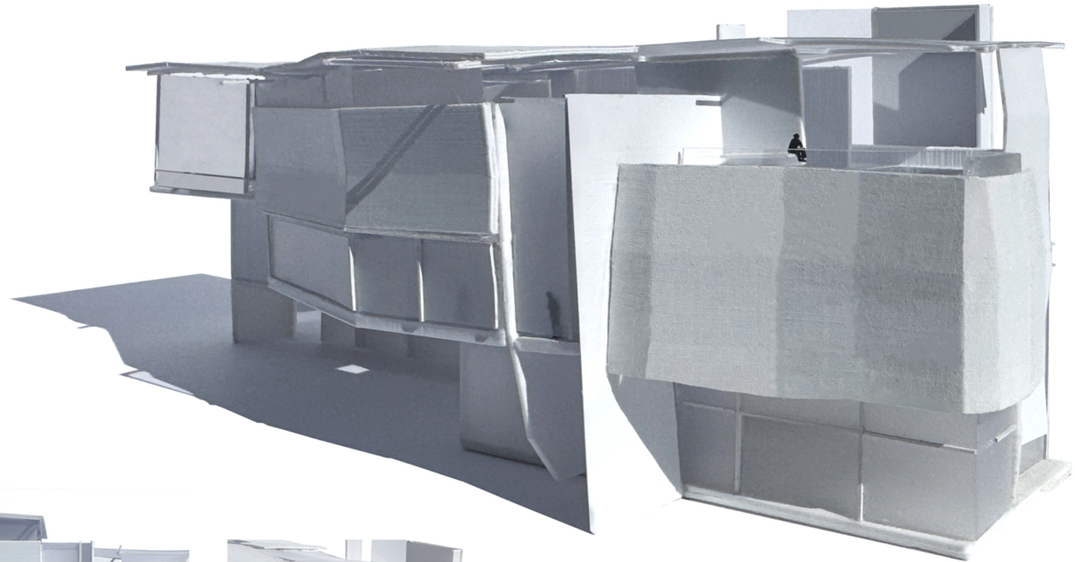


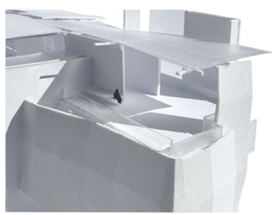


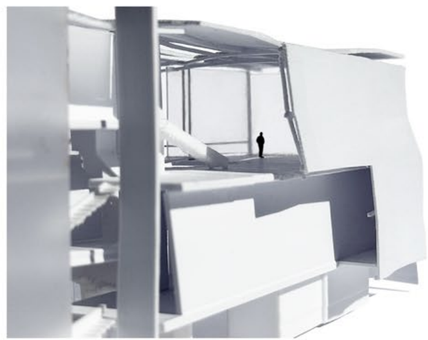


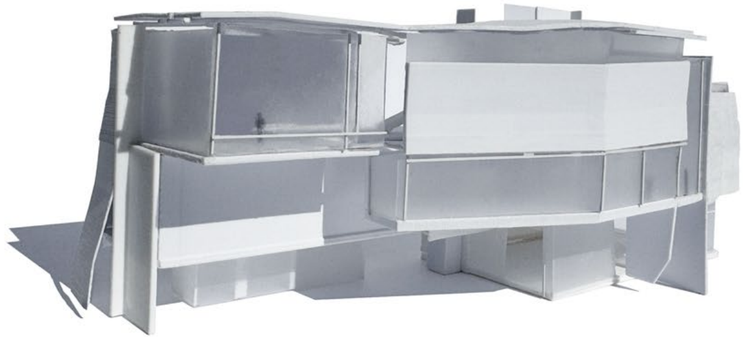








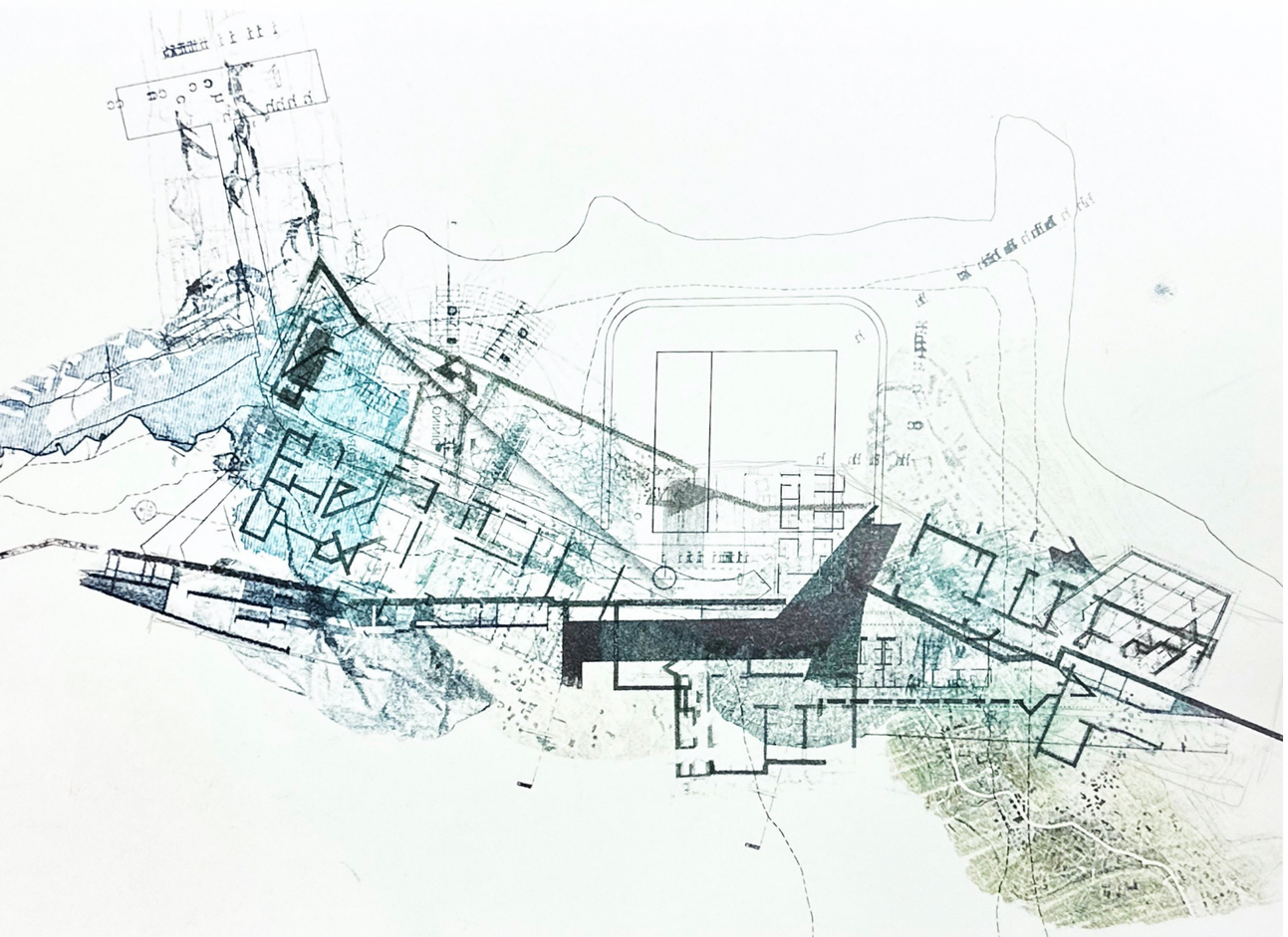




FORT MANTANZAS

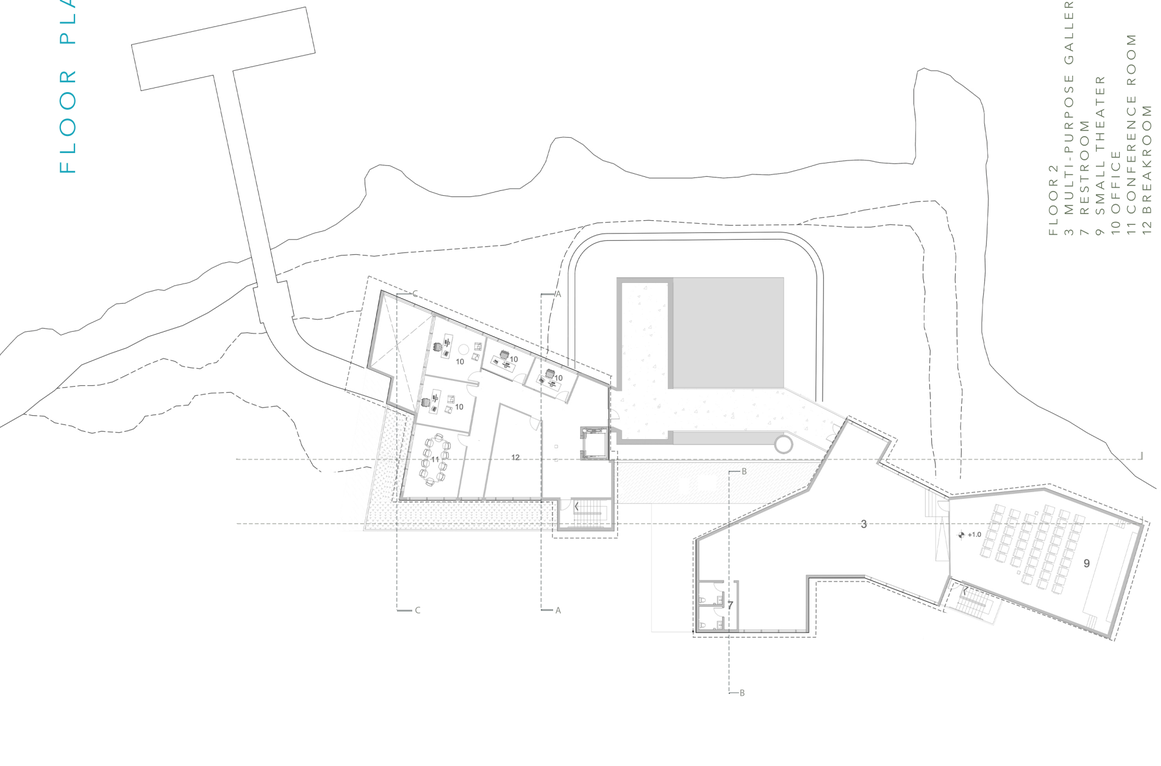
CORE III - PROFESSOR THOMAS GOODWILL

THE FORT MATANZAS PROJECT EXPLORES THE POTENTIAL OF INTRODUCING TOURIST TRAFFIC TO THE HISTORICAL ARCHITECTURE IN SAINT AUGUSTINE, FLORIDA. THE OBJECTIVE OF THE PROJECT IS TO CURATE SPACE AND ARCHITECTURAL ELEMENTS THAT EFFECTIVELY COMMUNICATE WITH THE FORT WHILE SERVING EDUCATIONAL PURPOSES RELATED TO ART, HISTORY, AND CULTURE. IN THIS DESIGN, THE BUILDING MASS IS DIVIDED INTO TWO VOLUMES THAT ARE INTERCONNECTED THROUGH BRIDGING ELEMENTS. THESE ELEMENTS SPAN ACROSS THE ORIGINAL OPENING OF THE FORT AND AROUND ITS WALLS. THE HIGHLIGHTING FEATURE OF THE PROJECT IS THE BRIDGING ELEMENTS, WHICH GUIDE VISITORS THROUGH A TRANSFORMATIVE EXPERIENCE, SHOWCASING THE TRANSITION FROM MODERN ARCHITECTURE TO ANCIENT ARCHITECTURE.

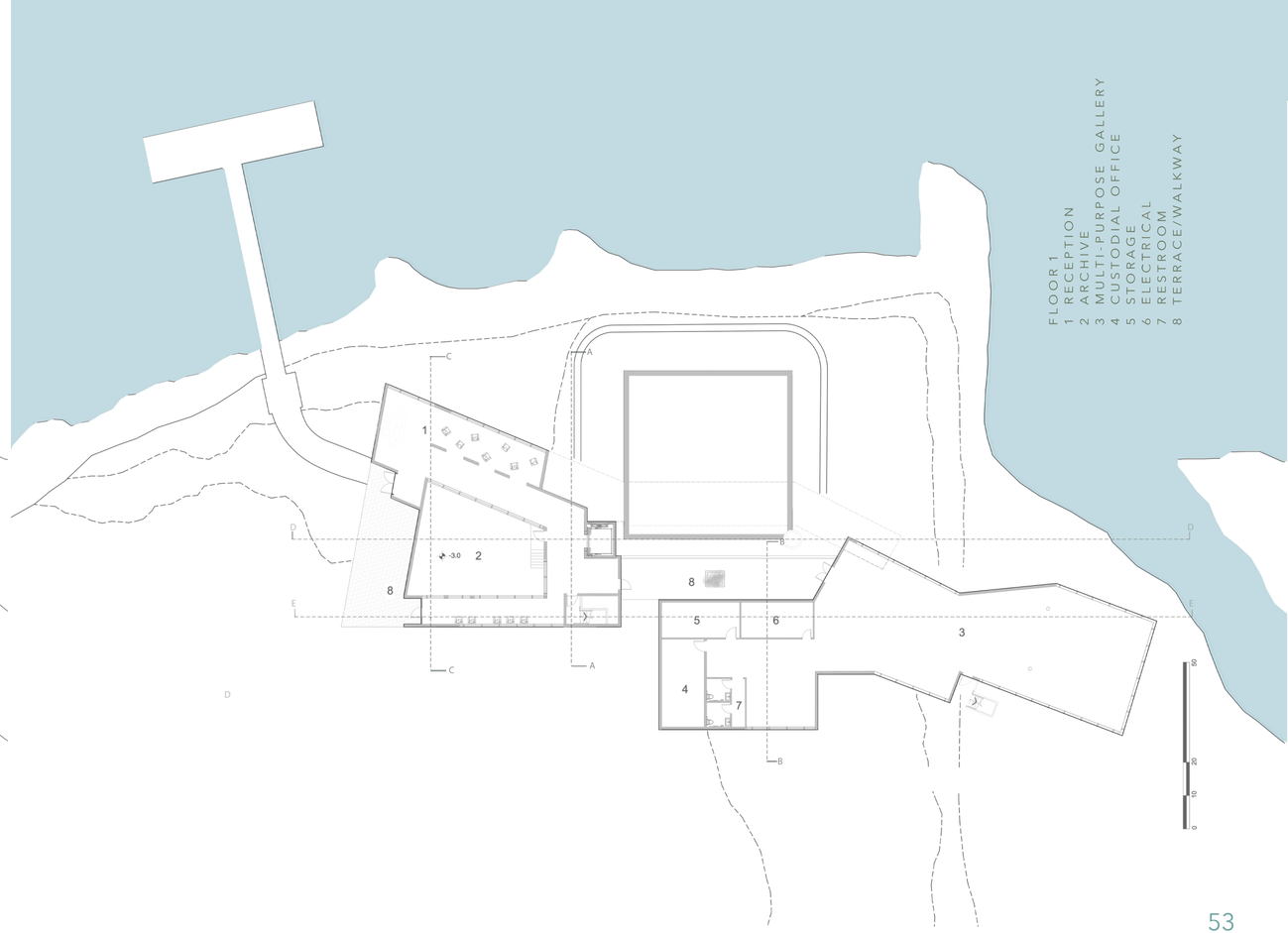


PRIVATE
PUBLIC
RECEPTION
ARCHIVE
REST AREA
WALKWAY
UTILITIES/WASHROOM
MULTI-PURPOSE GALLERY
FLOOR 1
1 RECEPTION
2 ARCHIVE
3 MULTI-PURPOSE GALLERY
4 CUSTODIAL
5 STORAGE
6 ELECTRICAL
7 RESTROOM
8 TERRACE / WALKWAY
RECEPTION
OFFICES
OFFICES
REST AREA
UTILITIES/WASHROOM
MULTI-PURPOSE GALLERY
THEATER
FLOOR 2
3 MULTI-PURPOSE GALLERY
7 RESTROOM
9 SMALL THEATER
10 OFFICE
11 CONFERENCE ROOM
12 BREAKROOM

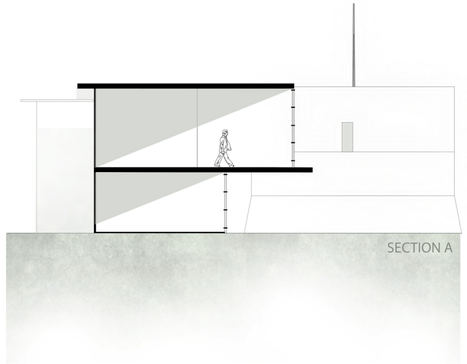
FLOOR PLANS



FLOOR 2
3 MULTI-PURPOSE GALLERY
7 RESTROOM
9 SMALL THEATER
10 OFFICE
11 CONFERENCE ROOM
12 BREAKROOM



FLOOR 1
1 RECEPTION
2 ARCHIVE
3 MULTI-PURPOSE GALLERY
4 CUSTODIAL OFFICE
5 STORAGE
6 ELECTRICAL
7 RESTROOM
8 TERRACE/WALKWAY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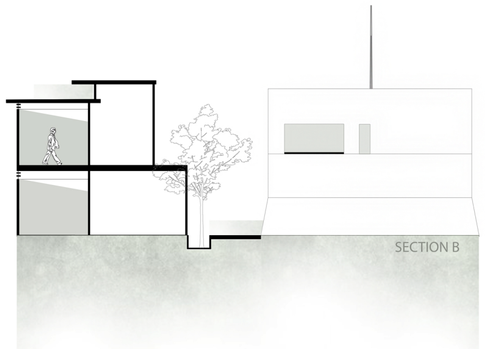
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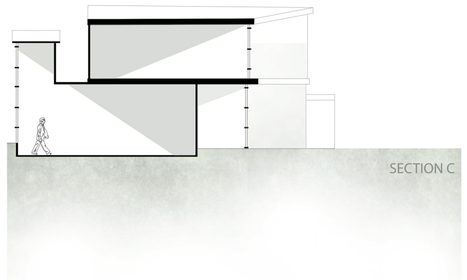
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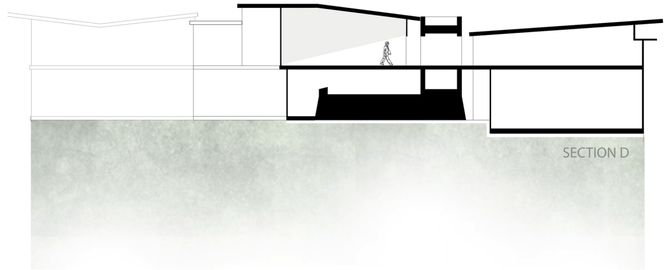
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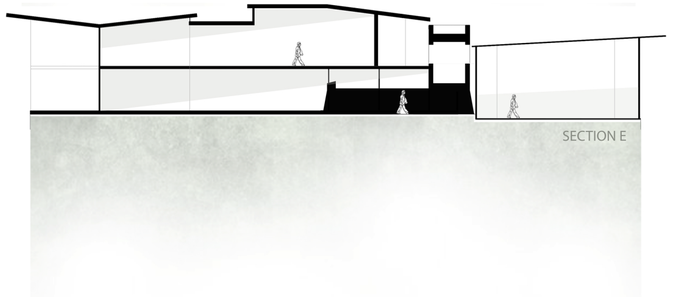
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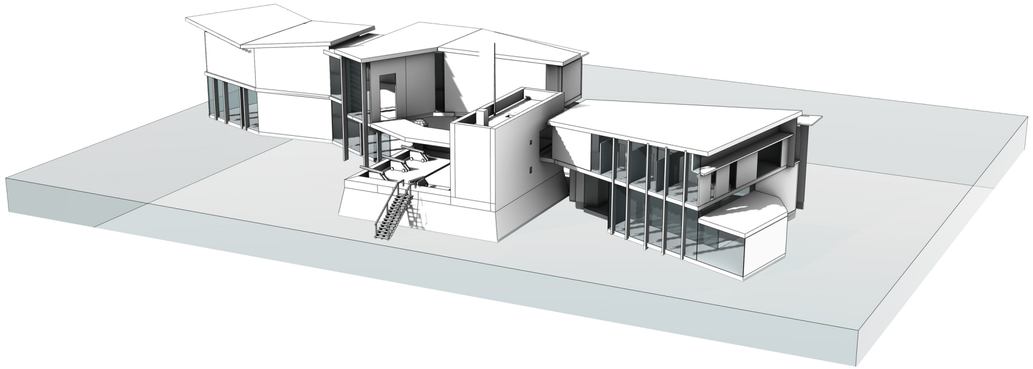
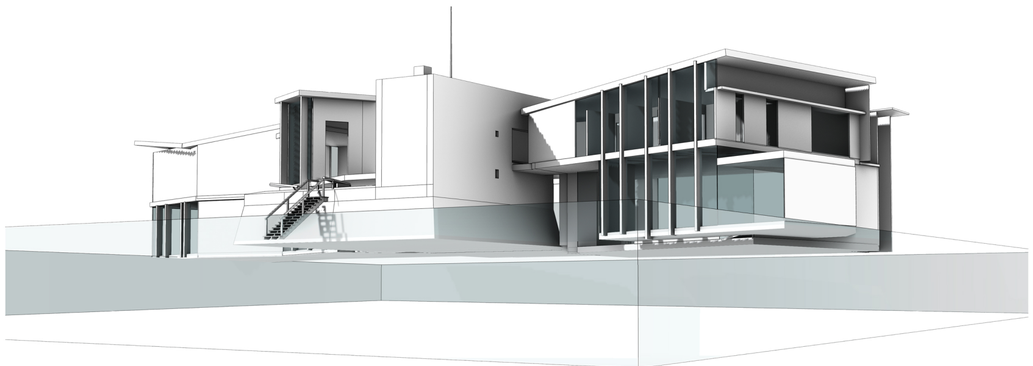
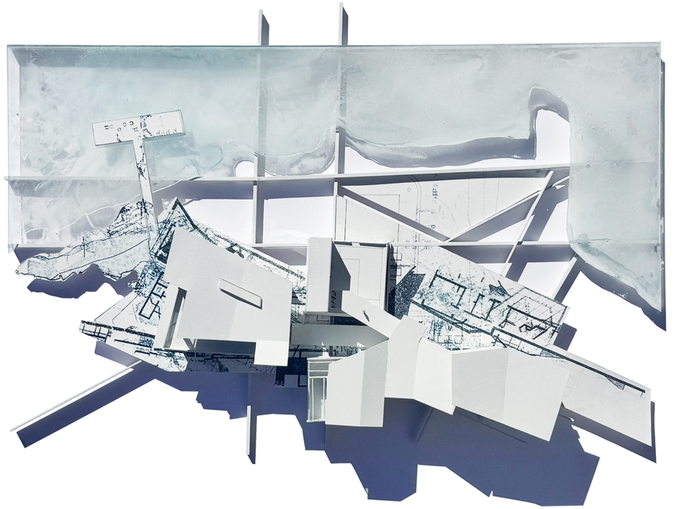
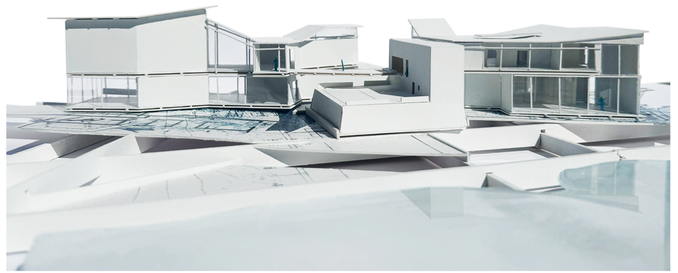
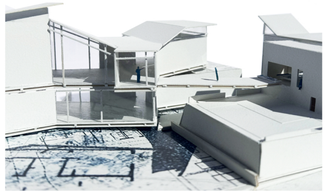
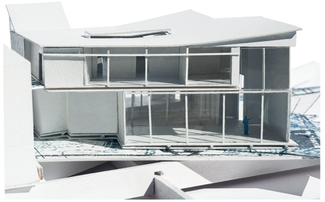


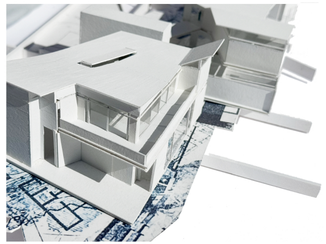


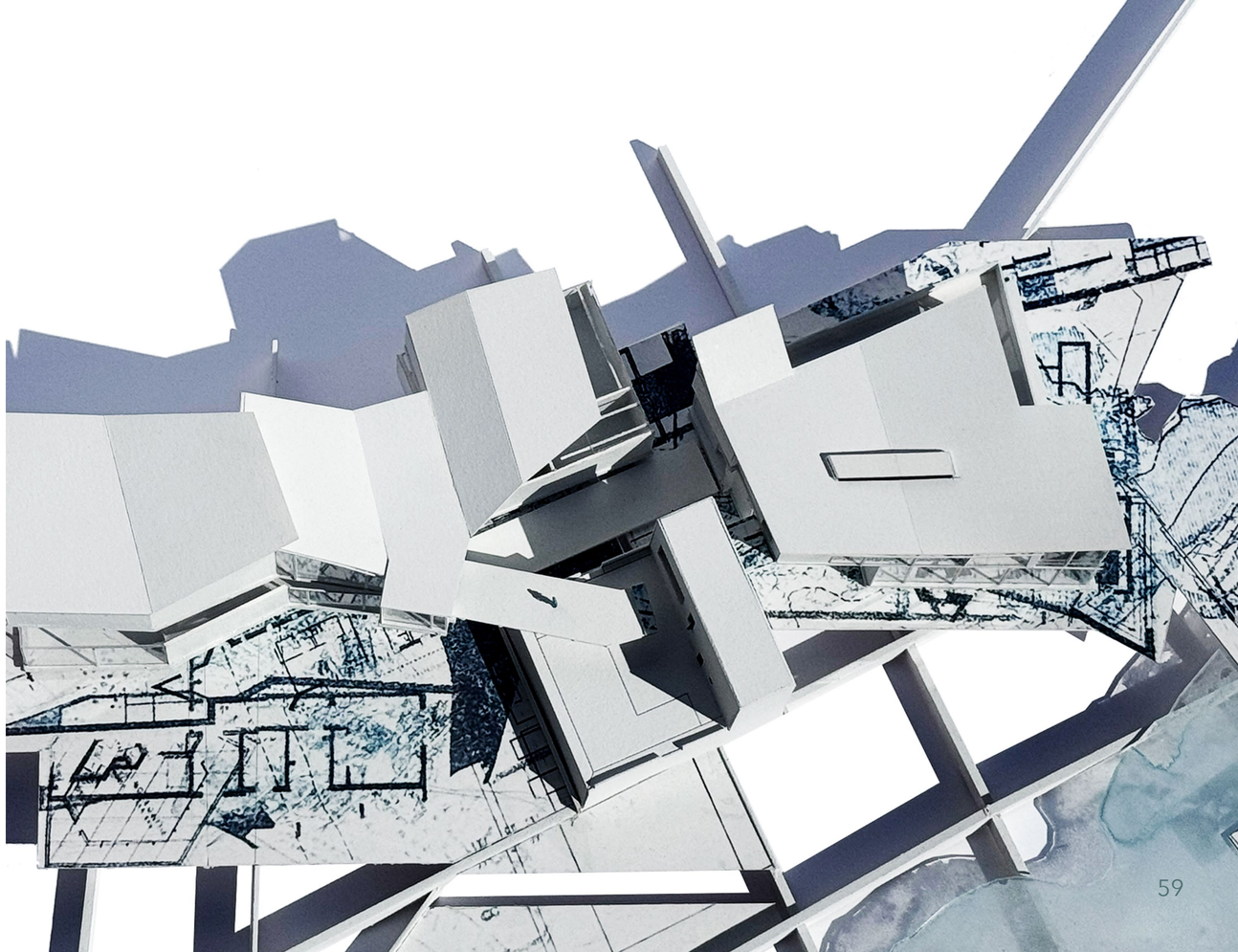






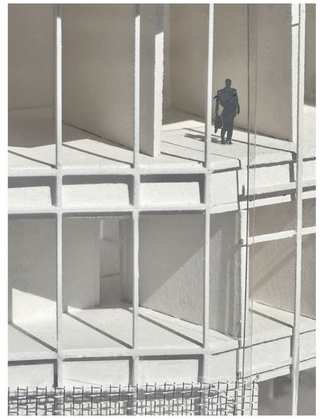






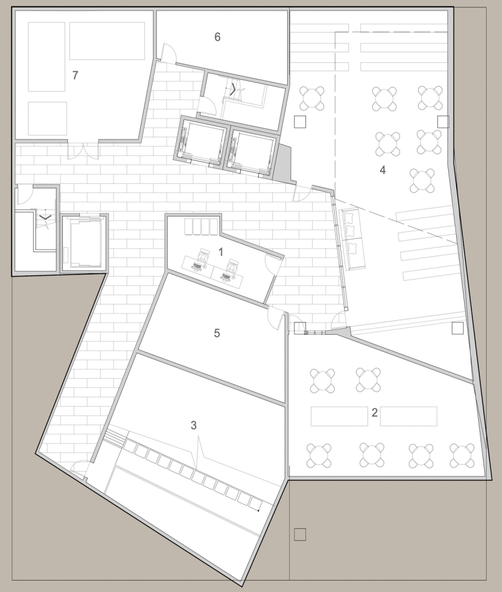
NYC HIGHLINE - MORGAN LIBRARY

CORE III - PROFESSOR THOMAS GOODWILL



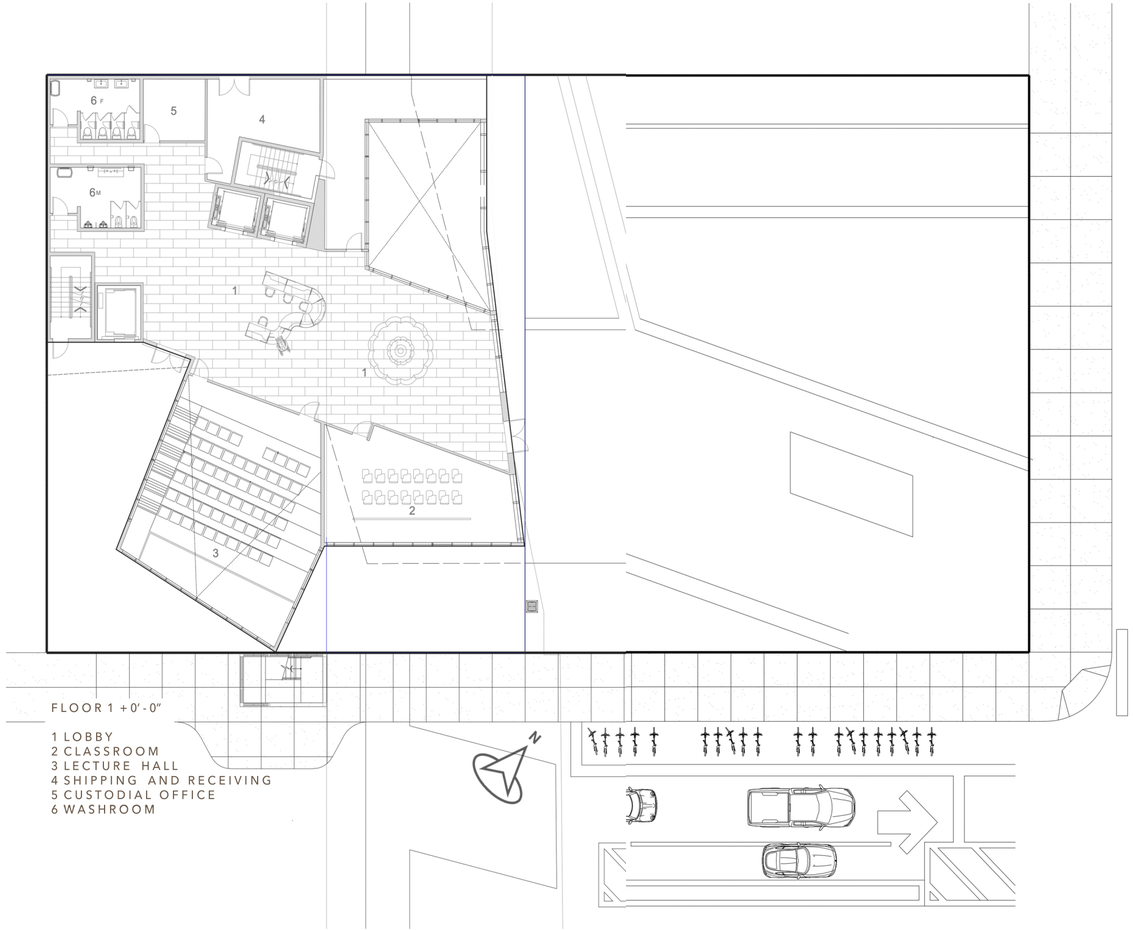
THE MORGAN LIBRARY, SITUATED ADJACENT TO THE HIGH LINE IN NEW YORK CITY, BOASTS A DISTINCTIVE ARCHITECTURAL ELEVATION SOARING 140 FEET HIGH. THIS DESIGN IS A DELIBERATE RESPONSE TO THE PRESENCE OF THE HIGH LINE, EVIDENT IN ITS STRIKING ENTRANCE AND THE COMPREHENSIVE REDESIGN OF THE FRONT PLAZA (PART OF HIGHLINE). THE INTRICATELY PLANNED STRUCTURE ENCOMPASSES VARIOUS COMPONENTS, INCLUDING AN ADULT AND CHILDREN'S LIBRARY, A READING AREA, ARCHIVED COLLECTIONS, AN ART GALLERY, A CAFÉ, RESTAURANT, AND OFFICES. ITS PRIMARY OBJECTIVE IS TO ATTRACT VISITORS FROM BOTH THE HIGH LINE AND THE GROUND FLOOR, FOSTERING A DYNAMIC AND ENGAGING ENVIRONMENT. THE ARCHITECTURAL CONCEPT ADOPTS A HARMONIOUS BLEND OF GEOMETRIC FORMS AND AN ORGANIC FAÇADE. THIS DELIBERATE CHOICE NOT ONLY ALIGNS WITH THE ORIGINAL DESIGN OF THE HIGH LINE BUT ALSO COMPLEMENTS THE SURROUNDING BUILDINGS. MORE SIGNIFICANTLY, IT PAYS HOMAGE TO THE DIVERSITY AND MODERNISM THAT EPITOMIZE THE SPIRIT OF NEW YORK CITY.

FLOOR PLANS



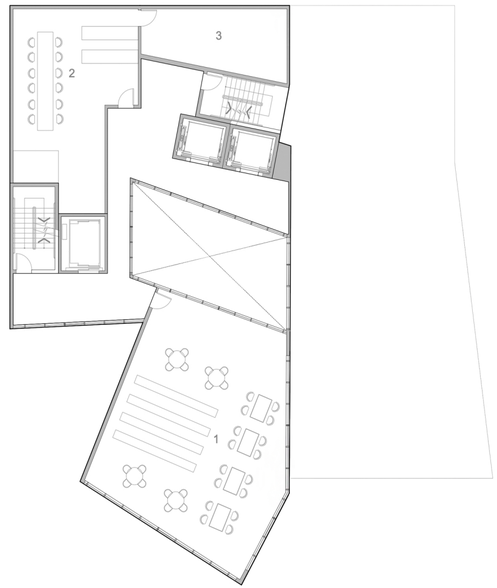
BASEMENT -10' - 0"

1 SECURITY OFFICE
2 CLASSROOM
3 LECTURE HALL
4 CHILDREN READING ROOM
5 GENERAL STORAGE
6 ELECTRICAL
7 MECHANICAL



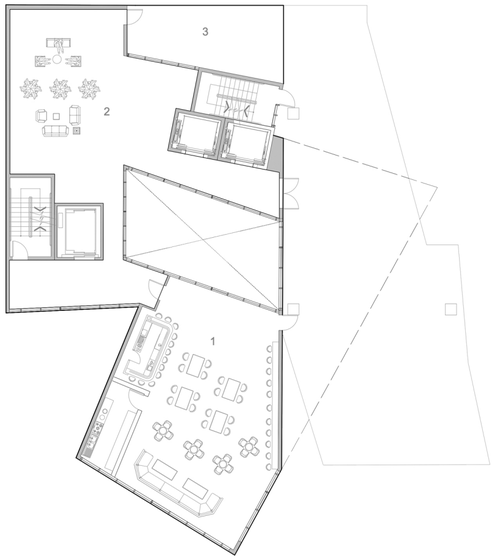
FLOOR 1 + 0' - 0"

1 LOBBY
2 CLASSROOM
3 LECTURE HALL
4 SHIPPING AND RECEIVING
5 CUSTODIAL OFFICE
6 WASHROOM



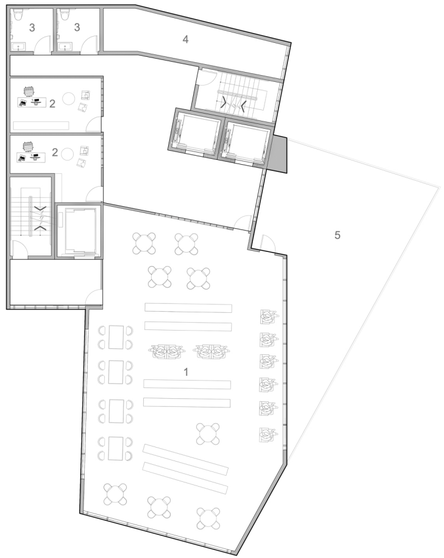
FLOOR 2 + 14' - 0"

1 RARE BOOK READING ROOM
2 RESTORATION STUDIO
3 STORAGE



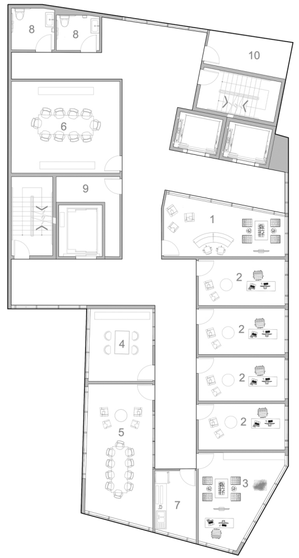
FLOOR 3 +28′-0″ HIGHLINE LEVEL

1 CAFE/RESTAURANT
2 MULTI-PURPOSE / REST AREA
3 BALCONY



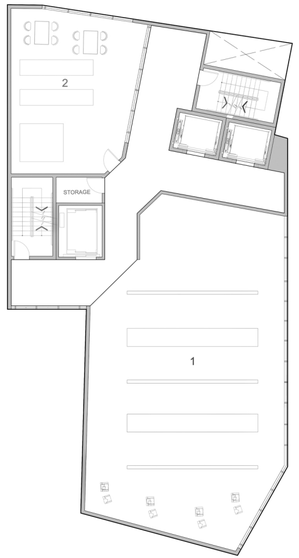
FLOOR 4 +48′-0″

1 GENERAL READING ROOM
2 OFFICE
3 WASHROOM
4 STORAGE
5 ROOF GARDEN



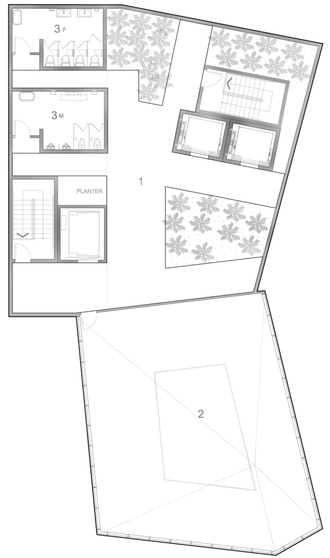
FLOOR 5 +68′-0″

1 RECEPTION
2 OFFICE
3 DIRECTOR'S OFFICE
4 WORK ROOM
5 CONFERENCE ROOM
6 COLLABORATION ROOM
7 KITCHEN / REST AREA
8 WASHROOM
9 STORAGE
10 BALCONY



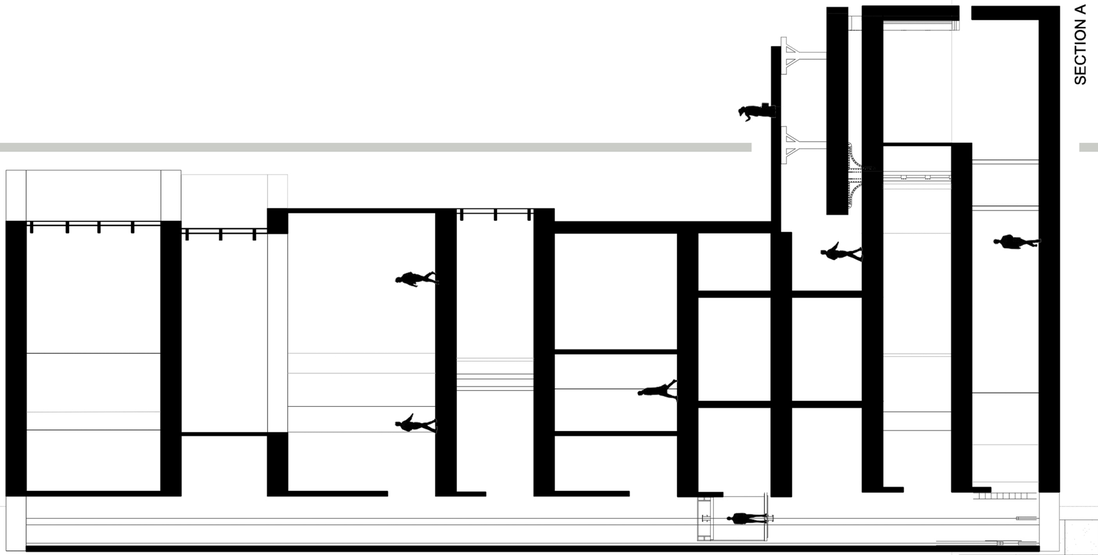
FLOOR 6 +82′-0″

1 GALLERY
2 ARCHIVE

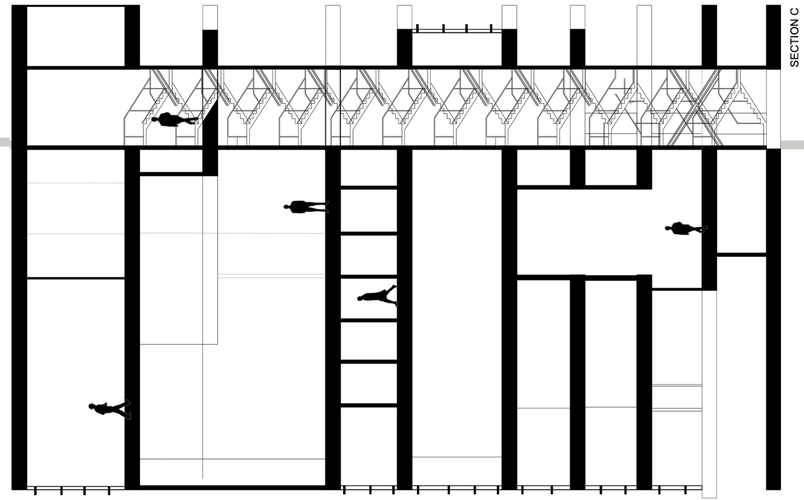


FLOOR 7 +110′-0″

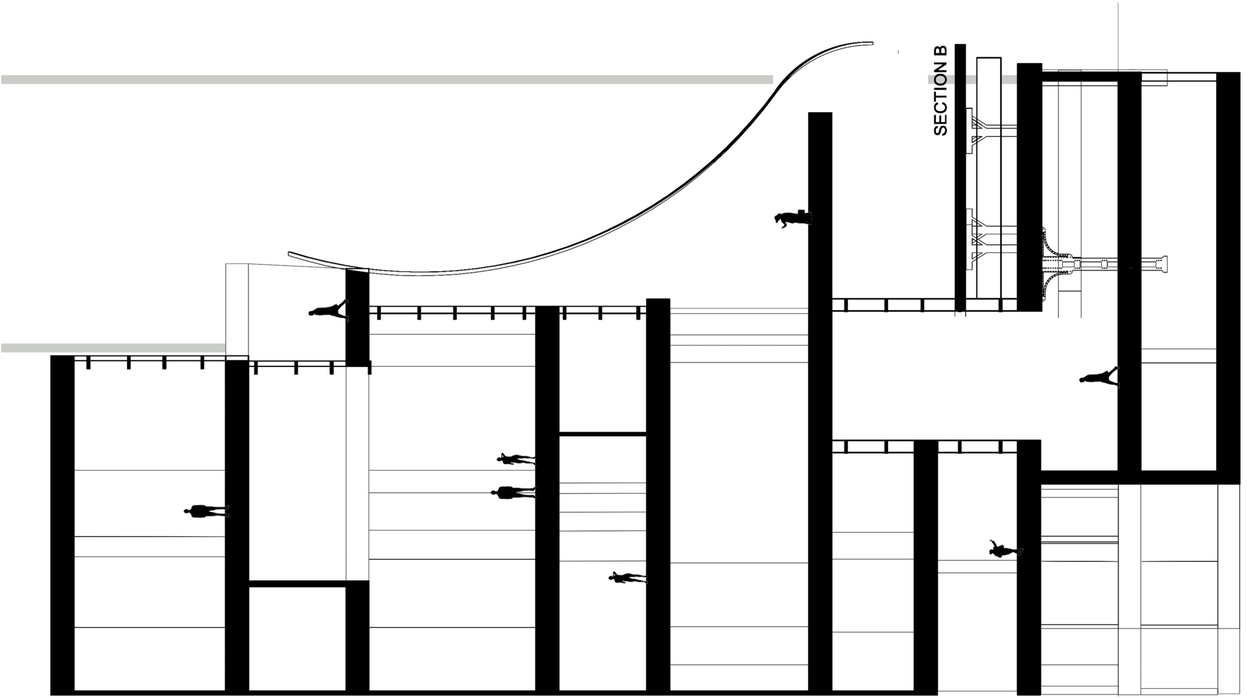
1 ROOF GARDEN
2 SKYROOM
3 WASHROOM

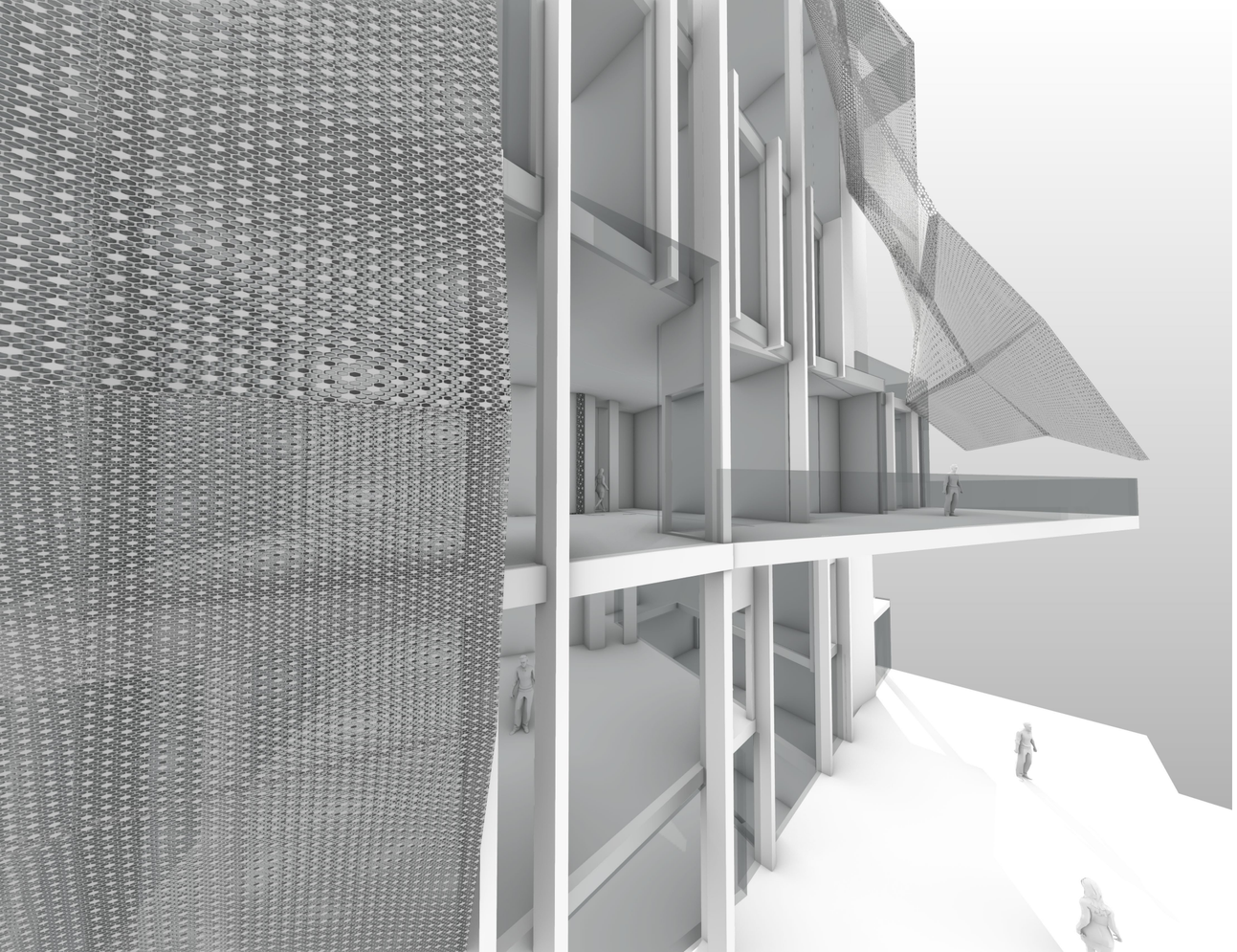


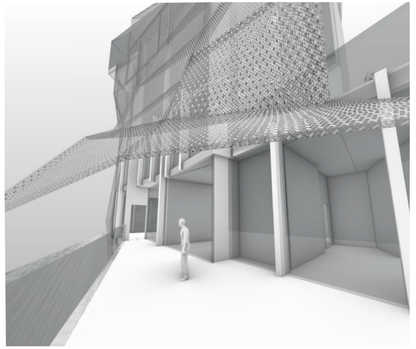
SECTION A

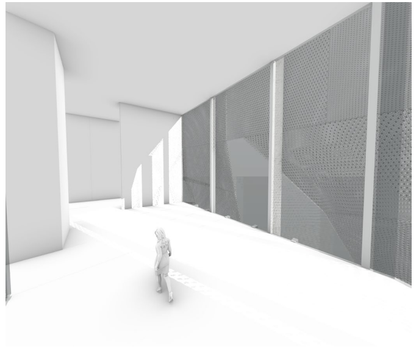


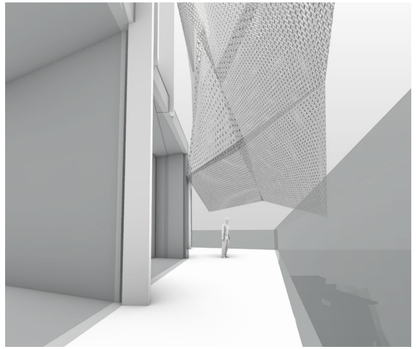
SECTION C


SECTION B

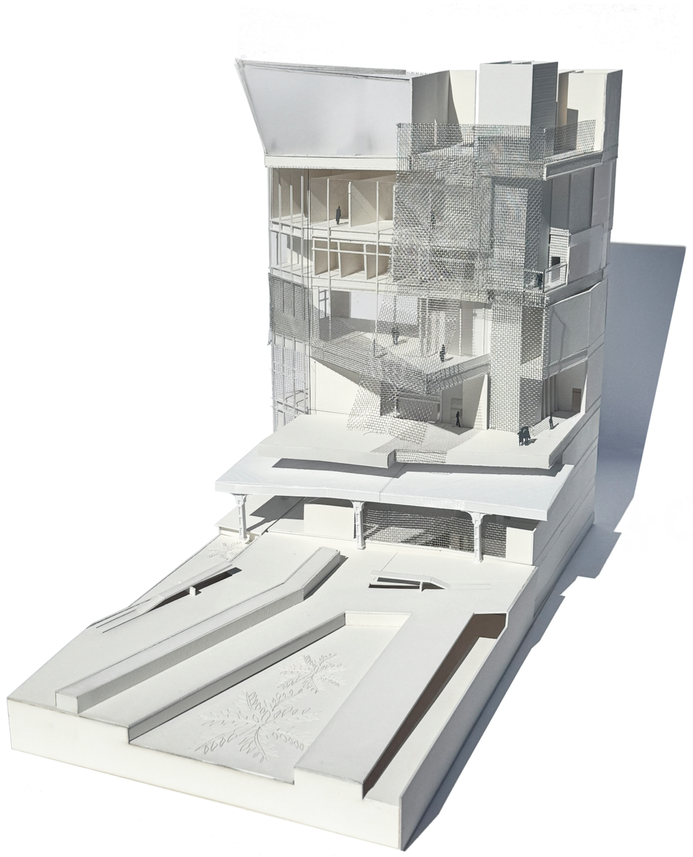


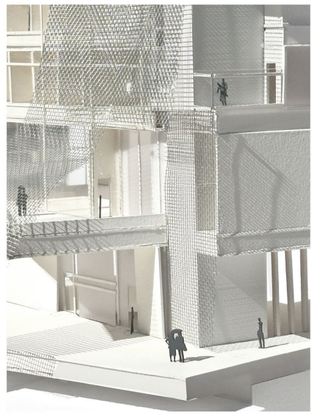


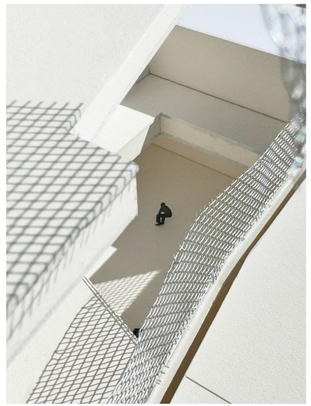
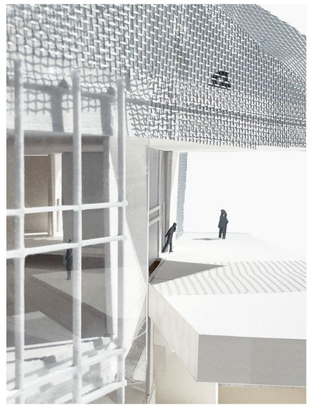
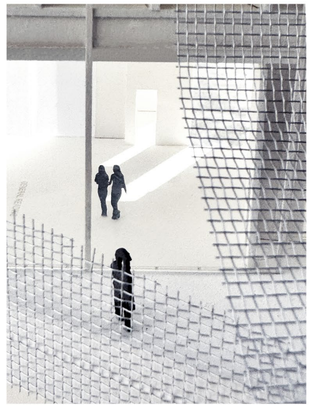
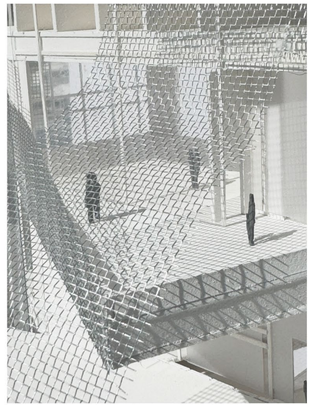




PHYSICLAL MODEL





2022 FW - 2023 FW